USER'S GUIDE

Version 4.0
January 2004
G52-V1TVX04

N1996

FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Notice 1

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2

Shielded interface cables and A.C. power cord, if any, must be used in order to comply with the emission limits.

VOIR LA NOTICE D'INSTALLATION AVANT DE RACCORDER AU RESEAU.

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Revision History

Revision	Date	Release Note
V 1.0	Aug 2002	TV@nywhere/MS-8884
V 2.0	May 2003	TV@nywhere series only
V 3.0	Sep 2003	TV@nywhere series/MS-8928
V 4.0	Jan 2004	TV@nywhere series/MS-8928/MS-8953

Important Safety Precautions

Always read and follow these basic safety precautions carefully when handling any piece of electronic component.

1. Keep this User's Manual for future reference.
2. Keep this equipment away from humidity.
3. Lay this equipment on a stable, flat surface before setting it up.
4. The openings on the enclosure are for air convection, hence they protect the equipment from overheating.
5. Make sure the voltage of the power source and adjust properly 110/220V before connecting the equipment to the power inlet.
6. Place the power cord in a way that people are unlikely to step on it. Do not place anything on the power cord.
7. Always Unplug the Power Cord before inserting any add-on card or module.
8. All cautions and warnings on the equipment should be noted.
9. Never pour any liquid into the opening that could damage the equipment or cause an electrical shock.
10. If any of the following situations arise, get the equipment checked by a service personnel:
    - The power cord or plug is damaged
    - Liquid has penetrated into the equipment
    - The equipment has been exposed to moisture
    - The equipment has not functioned properly or in accordance with the User's Guide
    - The equipment was dropped and damaged
    - The equipment has obvious signs of breakage
11. DO NOT LEAVE THE EQUIPMENT IN AN UNCONDITIONED ENVIRONMENT WITH A STORAGE TEMPERATURE OF 60^0C (140^0F) OR ABOVE. IT MAY DAMAGE THE EQUIPMENT.

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1

GETTING STARTED

This user's guide is a compound designing for a series of cards with TV tuner function. Read this chapter first, and it will give you a clear instruction on how to use this guide.

1.1 How to Use this Guide

This user's guide is a compound designing for a series of cards with TV tuner function. Before you start reading this guide, find out the product name of the card on the packing box, and look for the specification and function description in chapter 2.

Chapter 2, INTRODUCTION, provides some brief specification and function of each card. For detailed description of all functions, you may need to refer to Chapter 3 ~ Chapter 6, the rest of the chapters. Note that the card you purchased may not cover all functions mentioned herein; therefore, it is recommended that you read the "Reference" information first, which indexes the correspoding founction description to each different card, and then find the proper function description for your card in other chapters.

Chapter 3, HARDWARE INSTALLATION, tells you how to install your card into your computer correctly and how to use the connectors on the card. Note that your card may not cover all functions mentioned in this chapter. Check on Chapter 2, INTRODUCTION, for the specification of the card you purchased if you have any problem in finding the proper function description for your card.

Chapter 4, SOFTWARE INSTALLATION, describes how to install software for Windows XP, 2000, ME, 98SE, including the driver and useful utilities.

Chapter 5, HOW TO USE MSI PVS, describes how to use MSI PVS. The MSI PVS is a powerful software which provides the functions of TV channels browsing, reminding, recording, image capturing, time shifting, quality setting, remote controlling, and so on.

Chapter 6, HOW TO USE MSI RADIO, describes how to use the MSI Radio. The MSI Radio that comes with a modern designed panel is a handy utility for receiving broadcasts. The changeable skins of the MSI Radio can make your taste more unique and personalized. The record function can instantly record your favorite broadcast content; otherwise, the language learning function can repeatly play a specified section of the recorded broadcast content as you like.

1.2 Conventions of this Guide

Read the conventions of this guide, and it will give you an idea about how this guide is designed and how this guide should be used.

The product name of this card

The layout of this card

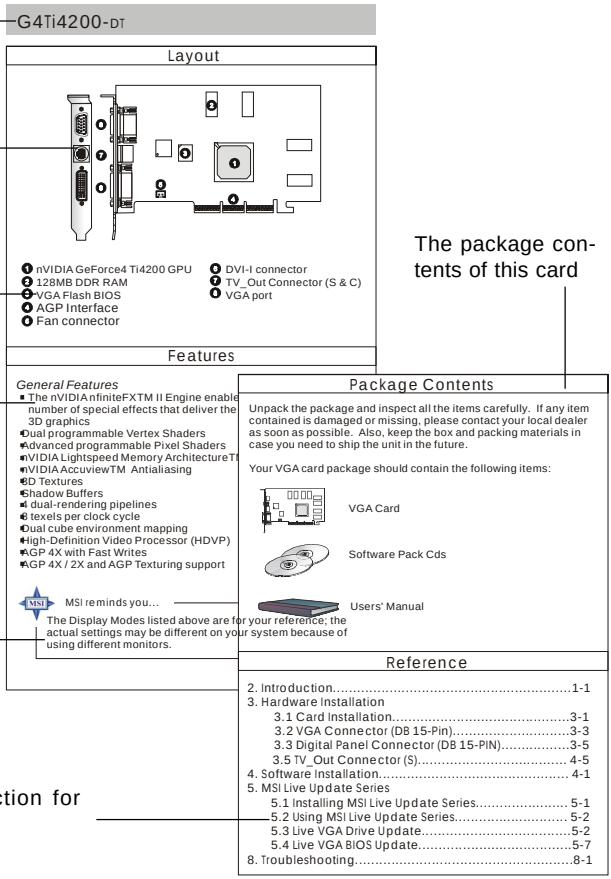
The components on this card

The specifications of this card

Important information that you should pay attention to

Corresponding function for each particular card

The package contents of this card


G4Ti4200-DT
Layout
1 nVIDIA GeForce4 Ti4200 GPU
2 128MB DDR RAM
3 VGA Flash BIOS
4 AGP Interface
5 Fan connector
6 DVI-I connector
7 TV_Out Connector (S & C)
8 VGA port
Features
General Features
The nVIDIA nfiniteFX™ II Engine enable
number of special effects that deliver the
3D graphics
Dual programmable Vertex Shaders
Advanced programmable Pixel Shaders
nVIDIA Lightspeed Memory Architecture™
nVIDIA Accuview™ Antialiasing
8D Textures
Shadow Buffers
4 dual-rendering pipelines
8 texels per clock cycle
Dual cube environment mapping
High-Definition Video Processor (HDVP)
AGP 4X with Fast Writes
AGP 4X / 2X and AGP Texturing support
MSI reminds you...
The Display Modes listed above are for your reference; the actual settings may be different on your system because of using different monitors.
Package Contents
Unpack the package and inspect all the items carefully. If any item contained is damaged or missing, please contact your local dealer as soon as possible. Also, keep the box and packing materials in case you need to ship the unit in the future.
Your VGA card package should contain the following items:
VGA Card
Software Pack Cds
Users' Manual
Reference
2. Introduction.....1-1
3. Hardware Installation
3.1 Card Installation.....3-1
3.2 VGA Connector (DB 15-Pin).....3-3
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Note

2

INTRODUCTION

This chapter provides some brief specification and function of each card. For detailed description of all functions, you may need to refer to Chapter 3 ~ Chapter 6, the rest of the chapters. Note that the card you purchased may not cover all functions mentioned herein; therefore, it is recommended that you read the “Reference” information first, which indexes the correspoding founction description to each different card, and then find the proper function description for your card in other chapters.

2.1 System Requirements

To install the card, your system needs to meet the following requirements:

	Computer	Intel® Pentium II/III/4 processor, Intel® Celeron processor, or compatible system
	Expansion Slot	PCI slot for TV@nywhere(-Master) * AGP slot for TV5700/TV5200-VTDF128
	Monitor	VGA support, minimum 640 x 480 resolution
	Operating System	Windows® XP/2000/ME/98SE
	CD-ROM Drive	Double Speed or Higher

* Although the TV5700/TV5200-VTDF128 is an AGP interface card, its large bracket would occupy the adjacent PCI slot (the 1st PCI slot). Thus, before installing the TV5700/TV5200, please move the existing PCI interface card from the 1st PCI slot to any other available one.

2.2 Jumper Setting Table

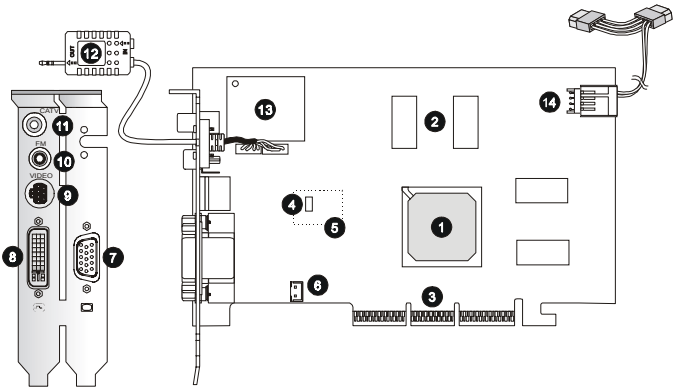
The following table lists all TV system standards used in the world. Find the proper standard to set the jumper on your TV tuner card, or consult your dealer for more information (for TV@nywhere only).

TV Tuner Card – Jumper Setting Table		
TV System	**Jumper Setting**	**Countries**
NTSC		Antigua and Barbuda, Antiles, Argentina, Aryenuna, Azores (US Forces), Bahamas, Barbados, Belize, Bermuda, Bolivia, Brazil, Burma, Cambodia, Canada, Chile, Colombia, Costa Rica, Cuba, Curacao, Diego Garcia, Dominica, Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Hawaii, Honduras, Jamaica, Japan, Kampuchea, Korea South, Leeward Islands, Mexico, Micronesia, Midway Islands, Montserrat, Nicaragua, Okinawa, Panama, Paraguay, Peru, Philippines, Puerto Rico, Samoa, St. Kitts & Nevis, Surinam, Taiwan, Trinidad& Tobago, Uruguay, USA, Venezuela, Virgin Islands.
PAL B/G		Abu Dhabi, Afghanistan, Albania, Algeria, Andorra, Angola, Australia, Austria Azores, Bahrain, Bangladesh, Belgium, Bhutan, Bosnia Herzegovina, Brunei, Gameroon, Canary Islands, Croatia, Cyprus, Denmark, Dubai, Equatorial Guinea, Ethiopia, Faroe Islands, Femando Po, Fuji, Finland, Germany, Ghana, Gibraltar, Greece, Iceland, India, Indonesia, Israel, Italy, Jordan, Kenya, Kuwait, Liberia, Liechtenstein, Luxembourg, Macedonia, Madeira, Malawi, Malaysia, Maldives, Malta, Monaco, Montenegro, Mozambique, Nepal, Netherlands, New Zealand, Nigeria, Norway, Oman, Pakistan, Papua New Guinea, Portugal, Qatar, Saba and Sarawak, San Marino, Saudi Arabia, Serbia, Seychelles, Sierra Leone, Singapore, Slovenia, Somalia, Spain, Sri Lanka, Sudan, Swaziland, Sweden Switzerland, Tanzania, Thailand, Tunisia, Turkey, Uganda, united Arab Emirates, Vatican City, Vietnam, Yemen, Yugoslavia Zambia Zimbabwe.
PAL D/K		China P. R., Czech Republic, Poland, Romania, Tibet,
PAL I		Angola, Botswana, United Kingdom, Falkland Islands, Gambia, Guinea Bissau, Hong Kong, Ireland, Lesotho, Macao, Namibia, South Africa, United Kingdom, Zanzibar

2.3 Product List

TV5700-VTDF128

Layout



1. nVIDIA GeForce FX GPU
2. 128MB DDR RAM
3. AGP Interface
4. Flash BIOS
5. Decoder
6. Fan Connector
7. D-Sub Port (DB 15-Pin)
8. DVI Connector
9. TV-Out / Video_In Connector (S&C)
10. FM Radio Antenna Connector
11. CATV In Connector
12. Audio Line In / Out Connector
13. TV and FM Silicon Tuner
14. Power Connector

VGA Features

CPU Features & Specifications

- NVIDIA UltraShadow™ technology
- NVIDIA® CineFX™ 2.0 engine
  - NVIDIA® UltraShadow™ technology for next-generation games
  - True 128-bit precision computation
  - Delivers 2x the floating-point pixel shader power over previous generation
- Advanced pixel shaders
- 128-bit studio-precision computation
- NVIDIA® Intellisample™ high-resolution compression technology (HCT)
- NVIDIA® ForceWare™ unified software environment (USE)
  - NVIDIA® Unified Driver Architecture (UDA)
  - Compatibility, Stability, Reliability
  - NVIDIA® nView™ multi-display technology

- Continual performance and feature updates over life of the product
- NVIDIA Unified Driver Architecture (UDA)
- DirectX 9.0 Optimizations and Support
- OpenGL 1.5 Optimizations and Support
- NVIDIA® nView™ multi-display technology
- NVIDIA® Digital Vibrance Control™ (DVC) 3.0
- AGP 8X
- Dual 400 MHz RAMDACs
- DVI Support
- Integrated TV encoder
- Integrated full hardware MPEG-2 decoder
- 64-phase video scaler
- .13u process technology
- Architected for Cg
- Designed for high-performance gaming
  - Utilizes advanced memory technology—including DDR2—for blazing performance
  - NVIDIA® Intellisample™ HCT (texture, color and z compression) for screaming performance at high resolutions
  - Delivers 3x the vertex processing power over previous generation

CPU Performance

- Core Clock: 425MHz
- Graphics Core: 256-bit
- Memory Interface: 128-bit
- Memory Bandwidth: 8.8GB/sec. (This value is for reference only, depending on the type of memory implemented)
- Fill Rate: 1.7 billion pixels/sec.
- Vertices/sec. 356 million
- Memory Data Rate: 550MHz
- Pixels per clock (peak): 4 pixels per clock
- Textures per pixel (max in a single rendering pass): 16 tetures per pixel
- Dual RAMDACs: 400MHz

Advanced Display Pipeline with Full nView Capabilities

- Dual, 400MHz RAMDACs for display resolutions up to and including 2048x1536@85Hz
- Integrated NTSC/PAL TV encoder support resolutions up to 1024x768 without the need for panning with built-in Macrovision copy protection
- Video Mixing Renderer (VMR) supports multiple video windows with full quality and features in each window
- DVD and HDTV-ready MPEG-2 decoding up to 1920x1080i resolutions
- Dual DVO ports for interfacing to external TMDS transmitters and external HDTV encoders
- Support for dual-link DVI for compatibility with next-generation flat panel displays with resolutions greater than 1600x1200 without the need for reduced blanking

Tuner Features

Digital Vibrance control (DVC) 3.0

- DVC color controls
- DVC image sharpening controls

Operation Systems and API support

- Windows® XP / 2000 / Me/ 98SE
- Complete DirectX support, including DirectX 9.0 and lower
- Full OpenGL 1.4 and lower

Compatibility

- NVIDIA Unified Driver Architecture (UDA)
- Fully compliant professional OpenGL 1.4 API with NVIDIA extensions, on all Linux and Windows operating systems
- WHQL-certified for Windows XP, Windows Me, Windows 2000

Hardware

- Invincible video quality supported by Silicon Tuner
- Enable to perform excellent adjustable IF output
- Global video standards support, including NTSC-M/J, PAL-B/G/D/K/H/I, SECAM-D/K/L/L'/B/G
- Adaptive 2-D Comb Filter
- FM Radio Tuner built-in
- Remote Transiver/Receiver Support

Software

Remote Function

- Support MSI Remote Controller

TV Function

- TV@nywhere-MPEG4 link, distanceless and real-time TV browsing and controlling
- Real time TV recording to MPEG1, MPEG2 and MPEG4
- TV AutoScan, FreeScan Support
- 256 Level Fine Tune in TV Quality
- Schedule recording and prerecording
- Time-Shifting
- Crystal video display
- Support Global Video/Audio standards

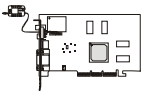
FM Radio function

- Changable skins
- Visual effects
- Instant radio recording
- Language Learning Machine
- 6 station memories
- Support stereo/mono FM Audio
- Support FM channel seek function

Package Contents

Unpack the package and inspect all the items carefully. If any item contained is damaged or missing, please contact your local dealer as soon as possible. Also, keep the box and packing materials in case you need to ship the unit in the future.

Your card package should contain the following items:


TV5700-VTDF128

Remote Controller

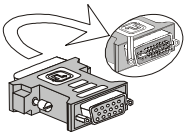
Software Pack CD

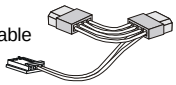
TV_Out / Video_In 1-to-4 Connecting cable + Remote Receiver

User's Guide

S-S Cable

FM Radio Antenna


DVI / VGA Adapter


Power Cable

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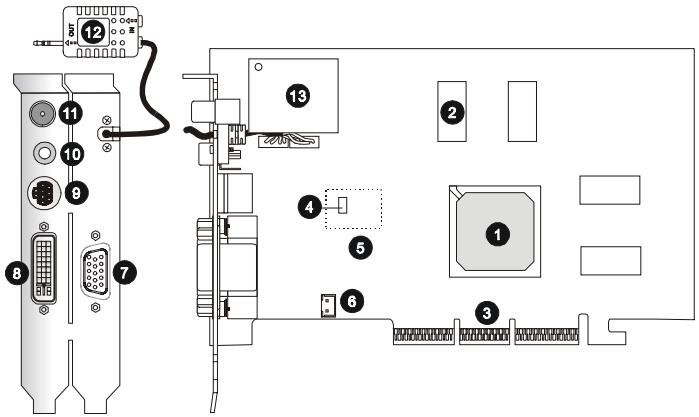
TV5200-VTDF128

Layout



1. nVIDIA GeForce FX GPU
2. 128MB DDR RAM
3. AGP Interface
4. Flash BIOS
5. Decoder
6. Fan Connector
7. D-Sub Port (DB 15-Pin)
8. DVI Connector
9. TV-Out / Video_In Connector (S&C)
10. FM Radio Antenna Connector
11. CATV In Connector
12. Audio Line In / Out Connector
13. TV and FM Silicon Tuner

VGA Features

CineFX Shading Architecture

- Support for DX 9.0 Pixel/Vertex Shader 2.0+
- Very long pixel programs up to 1024 instructions
- Very long vertex programs with up to 256 static instructions and up to 65536 instructions executed before termination
- Looping and subroutines with up to 256 loops per vertex program
- Subroutines in shader programs
- Dynamic flow control
- Conditional write masking
- Conditional execution
- Procedural shading
- Full instruction set for vertex and pixel programs
- Z-correct bump-mapping
- Hardware-accelerated shadow effects with shadow buffers
- Two-sided stencil

- Programmable matrix palette skinning
- Keyframe animation
- Custom lens effects: fish eye, wide angle, fresnel effects, water refraction

High-Performance, High-Precision, 3D Rendering Engine

- 4 pixels per clock rendering engine
- 128-bit, studio-quality floating point precision through the entire graphics pipeline
- Native support for 128-bit floating point, 64-bit floating point and 32-bit integer rendering modes
- Up to 16 textures per pass
- Support for sRGB texture format for gamma textures
- DirectX and S3TC texture compression

High-Performance 2D Rendering Engine

- Optimized for 32-, 24-, 16-, 15- and 8-bpp modes
- True-color, 64x64 hardware cursor with alpha
- Multi-buffering (double, triple or quad) for smooth animation and video playback

Advanced Display Pipeline with Full nView Capabilities

- Dual, 400MHz RAMDACs for display resolutions up to and including 2048x1536@85Hz
- Integrated NTSC/PAL TV encoder support resolutions up to 1024x768 without the need for panning with built-in Macrovision copy protection
- Video Mixing Renderer (VMR) supports multiple video windows with full quality and features in each window

Digital Vibrance control (DVC) 3.0

- DVC color controls
- DVC image sharpening controls

Operation Systems and API support

- Windows® XP / 2000 / Me / 98SE
- Complete DirectX support, including DirectX 9.0 and lower
- Full OpenGL 1.4 and lower

Compatibility

- NVIDIA Unified Driver Architecture (UDA)
- Fully compliant professional OpenGL 1.4 API with NVIDIA extensions, on all Windows operating systems
- WHQL-certified for Windows® XP, Windows® Me, Windows® 2000

Performance

- Graphics Core: 256-bit
- Memory Bandwidth: 10.4GB/sec. (This value is for reference only, depending on the type of memory implemented)
- Fill Rate: 1.3 billion texels/sec.
- Vertices per second: 81 million

Tuner Features

Hardware

- Invincible video quality supported by Silicon Tuner
- Enable to perform excellent adjustable IF output
- Global video standards support, including NTSC-M/J, PAL-B/G/D/K/H/I
- Supports 10 bit video AD converter
- Adaptive 2-D Comb Filter
- FM Radio Tuner built-in

Software

- *MPEG4 link
- *Changable skins
- *Visual effects
- *Instant radio recording
- *Language Learning Machine
- Crystal video display
- *Programmable and minimized bandwidth requirement
- Distanceless and real-time TV function control
  - -*Client user can real-time change TV channel and any software setting on the Server side
  - -Time-Shifting
  - -Scheduled, real-time and programmable recording
  - -Supports conversion to all formats: MPEG1, MPEG2 and MPEG4
  - -Instant channel preview

" * " *MSI unique feature*

Package Contents

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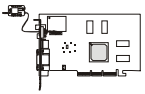
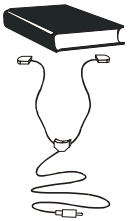

TV5200-VTDF128

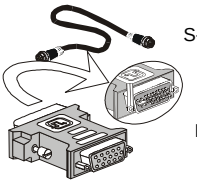
Remote Controller

Software Pack CD

TV_Out / Video_In 1-to-4 Connecting cable + Remote Receiver


User's Guide

FM Radio Antenna


S-S Cable

DVI / VGA Adapter

Reference

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Chapter 2 INTRODUCTION 2-1
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3.2 D-Sub Port (DB 15-Pin) 3-7
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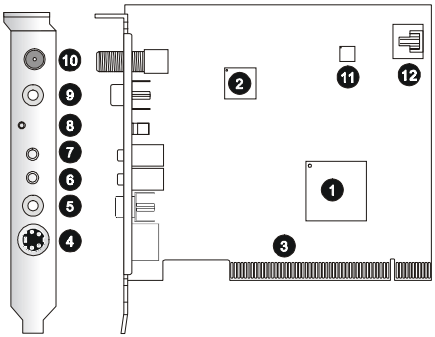
TV@nywhere-Master

Layout



1. Decoder
2. Silicon Tuner
3. PCI Interface
4. Video_In Connector (S)
5. Video_In Connector (C)
6. Audio Line In
7. Audio Line Out
8. Remote Receiver Connector
9. FM Radio Antenna Connector
10. CATV In Connector
11. FM Radio Chipset
12. Internal Audio Connector

Tuner Features

Hardware

- Invincible video quality supported by Silicon Tuner
- Enable to perform excellent adjustable IF output
- Global video standards support, including NTSC-M/J, PAL-B/G/D/K/H/I
- Supports 10 bit video AD converter
- Adaptive 2-D Comb Filter
- FM Radio Tuner built-in

Software

- *MPEG4 link
- *Changable skins
- *Visual effects
- *Instant radio recording
- *Language Learning Machine
- Crystal video display
- *Programmable and minimized bandwidth requirement
- Distanceless and real-time TV function control
  - -*Client user can real-time change TV channel and any software setting on the Server side
  - -Time-Shifting

Package Contents

Unpack the package and inspect all the items carefully. If any item contained is damaged or missing, please contact your local dealer as soon as possible. Also, keep the box and packing materials in case you need to ship the unit in the future.

Your TV tuner card package should contain the following items:

TV Tuner Card

Remote Controller

Software Pack CD

Remote Receiver Cable

User's Guide

S-S Cable

FM Radio Antenna

Audio Cable

Reference

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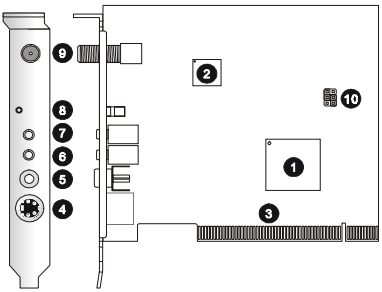
TV@nywhere

Layout



1. Decoder
2. Silicon Tuner
3. PCI Interface
4. Video_In Connector (S)
5. Video_In Connector (C)
6. Audio Line In
7. Audio Line Out
8. Remote Receiver Connector
9. CATV In Connector
10. Setting Jumper (*see 2.2*)

Tuner Features

Hardware Features

- Invincible video quality supported by Silicon Tuner & Conexant CX23881 audio/video decoder
- Enable to perform excellent adjustable IF output
- Offers global video standards support, including NTSC- M/J, PAL-B/G/D/K/H/I
- Supports 10-bit video AD converter
- Adaptive 2-D Comb Filter

Software Features

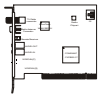
- *MPEG4 link
- Crystal video display
- *Programmable and minimized bandwidth requirement
- Distanceless and real-time TV function control
  - -*Client user can real-time change TV channel and any software setting on the Server side
  - -Time-Shifting
  - -Scheduled, real-time and programmable recording
  - -Supports conversion to all formats: MPEG1, MPEG2 and MPEG4
  - -Instant channel preview

" * " *MSI unique feature*

Package Contents

Unpack the package and inspect all the items carefully. If any item contained is damaged or missing, please contact your local dealer as soon as possible. Also, keep the box and packing materials in case you need to ship the unit in the future.

Your TV tuner card package should contain the following items:


TV Tuner Card

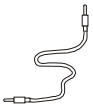
Remote Controller

Software Pack CD

Remote Receiver Cable

User's Guide

S-S Cable


Audio Cable

Reference

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3.4 Video_In Connector (C) 3-9
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Note

3

HARDWARE INSTALLATION

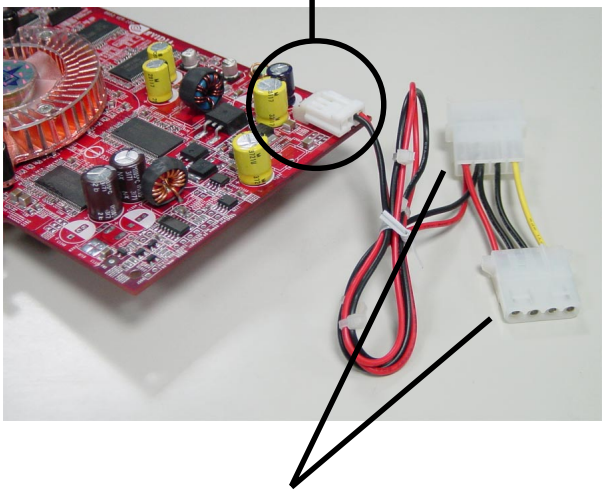
This chapter tells you how to install your card into your computer correctly and how to use the connectors on the card. Note that your card may not cover all functions mentioned in this chapter. Check on Chapter 2, INTRODUCTION, for the specification of the card you purchased if you have any problem in finding the proper function description for your card.

3.1 Card Installation

Connecting the Power Cable

TV5700VTDF128 comes with a power connetor, and it is necessary to have the offered power cable attached to both the power connector of the card and the power supply connector of the computer to ensure the card working properly.

Attach one end of the power cable to the power connecter located on TV5700VTDF128.



Attach the other ends of the power cable to the power supply connector of the computer.

MSI reminds you...

The supplied power cable must be attached to ensure the card working properly.

Always connect or disconnect the supplied power cable when the system power is switch off

Installing the Card

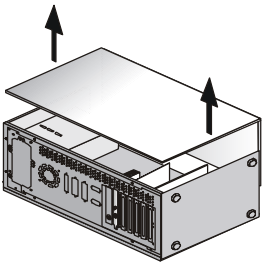
To install the card into your computer, please follow the steps below:

1. Follow the Windows® shut down procedure to turn off your computer.

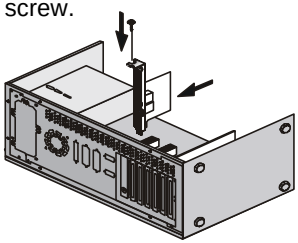
MSI reminds you...

Warning: Always remember to turn off your computer before installing or removing hardware to or from your computer. Neither the manufacturer nor the dealer is responsible for damages if the user ignores this warning!!!

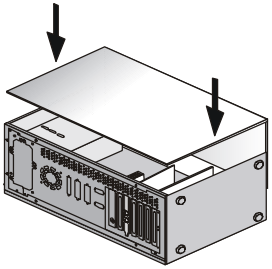
2. Remove the cover from your computer.



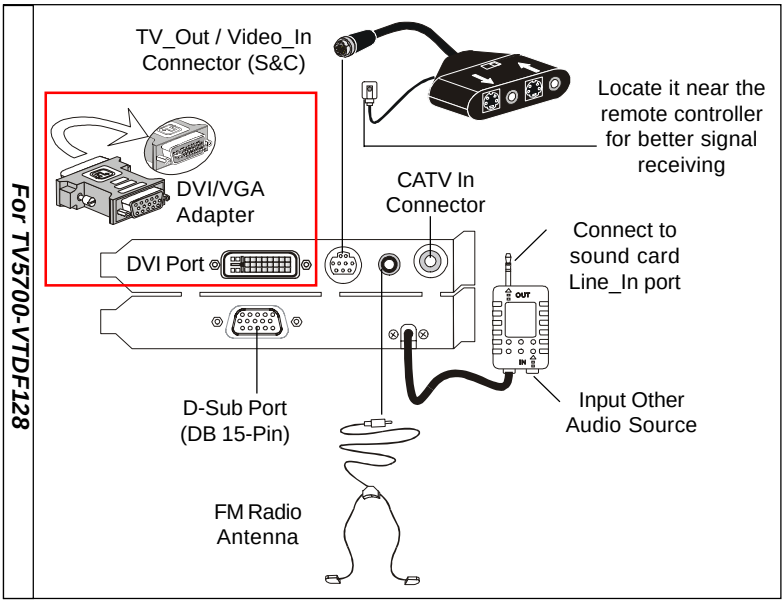
3. Put the card directly over the AGP slot (TV5700/TV5200-VTDF128) / PCI slot (TV@nywhere series) and press one end of the card into the slot first. Gently but firmly press the other end until it is fully seated in the slot. Secure the card with a bracket screw.



4. Install the computer cover.

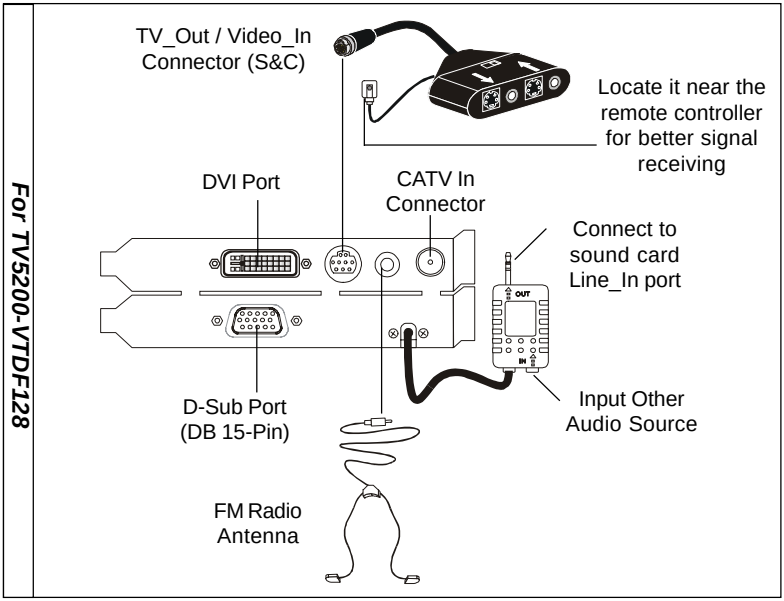


5. Connect all necessary cables.



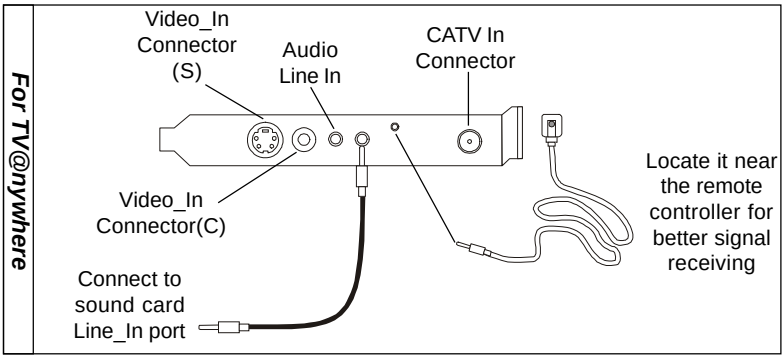
MSI reminds you...

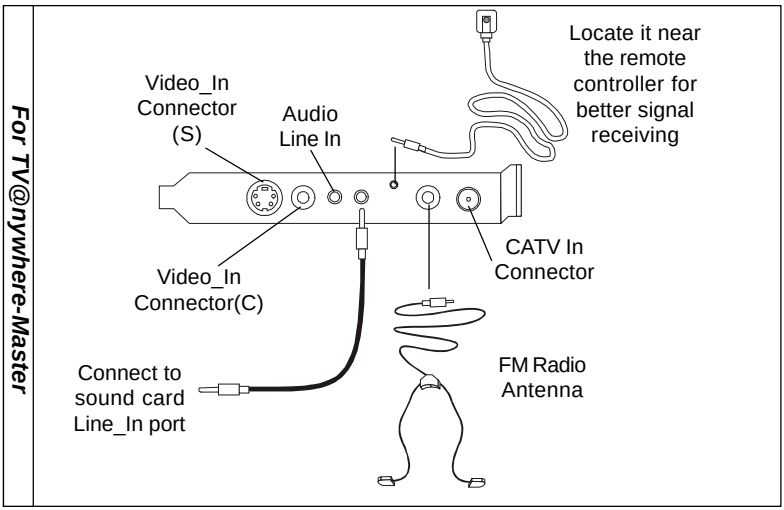
When the DVI/VGA Adapter is attached to the DVI port, this DVI port becomes another D-Sub port. Note that this D-Sub port and the TV_Out / Video_In Connector (S&C) next to it share the same encoder, and cannot be used simultaneously.



MSI reminds you...

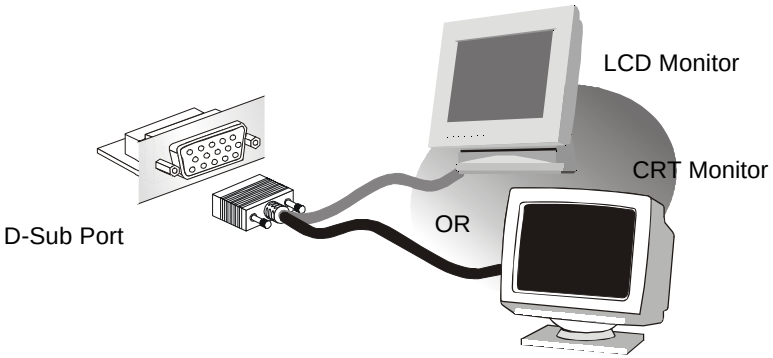
The D-Sub port and the TV_Out port, sharing the same encoder, cannot be used simultaneously. For applying the dual-view function, please transfer the DVI port to VGA port with the offered DVI / VGA adapter.


For TV@nywhere
Video_In
Connector
(S)
Audio
Line In
CATV In
Connector
Video_In
Connector(C)
Connect to
sound card
Line_In port
Locate it near
the remote
controller for
better signal
receiving

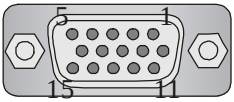

For TV@nywhere-Master
Locate it near
the remote
controller for
better signal
receiving
Video_In
Connector
(S)
Audio
Line In
CATV In
Connector
Video_In
Connector(C)
FM Radio
Antenna
Connect to
sound card
Line_In port

3.2 D-Sub Port (DB 15-Pin)

The VGA card provides a standard D-Sub Port, which allows you to connect a CRT or LCD monitor. Simply plug your monitor cable into the D-Sub Port on your VGA card, and make sure that the other end of the cable is properly connected to your monitor (refer to your monitor manual for more information.)



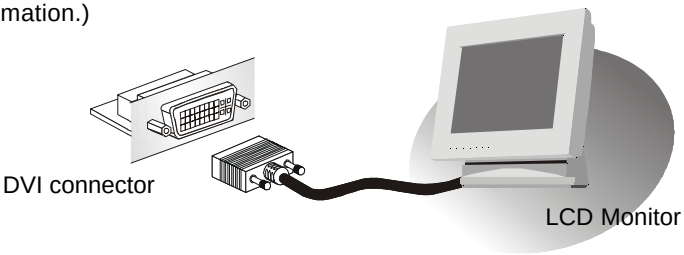
D-Sub Port Pin Definition



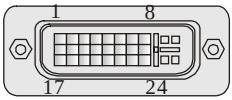
D-Sub Port (DB15-S)	
Pin	**Signal Description**
1	Red
2	Green
3	Blue
4	Not used
5	Ground
6	Ground
7	Ground
8	Ground
9	5V
10	Ground
11	Not used
12	SDA
13	Horizontal Sync
14	Vertical Sync
15	SCL

3.3 Digital Panel Connector (DVI)

The VGA card provides a DVI (Digital Visual Interface) connector which allows you to connect an LCD monitor. The DVI connector provides a high-speed digital interconnection between the computer and its display device. To connect a LCD monitor, simply plug your monitor cable into the DVI connector on the VGA card, and make sure that the other end of the cable is properly connected to your monitor. (refer to your monitor manual for more information.)



DVI Connector Pin Definition



DVI Connector			
Pin	**Signal Assignment**	**Pin**	**Signal Assignment**
1	T.M.D.S.* Data2-	13	T.M.D.S. Data3+
2	T.M.D.S. Data2+	14	+5V
3	T.M.D.S. Data2/4 Shield	15	GND (for +5V)
4	T.M.D.S. Data4-	16	Hot Plug Detect
5	T.M.D.S. Data4+	17	T.M.D.S. Data0-
6	DDC Clock	18	T.M.D.S. Data0+
7	DDC Data	19	T.M.D.S. Data0/5 Shield
8	N/C	20	T.M.D.S. Data5-
9	T.M.D.S. Data1-	21	T.M.D.S. Data5+
10	T.M.D.S. Data1+	22	T.M.D.S. Clock Shield
11	T.M.D.S. Data1/3 Shield	23	T.M.D.S. Clock+
12	T.M.D.S. Data3-	24	T.M.D.S. Clock-

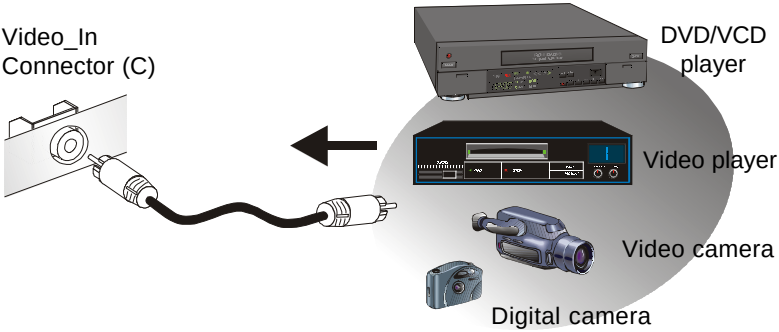
C 1	Analog Red	C 4	Analog Horizontal Sync
C 2	Analog Green	C 5	Analog Ground (analog R, G & B return
C 3	Analog Blue		

*T.M.D.S. Technology

The graphics data sent to the digital monitor use Transition Minimized Differential Signaling (T.M.D.S.)technology. TMDS uses an encoding algorithm to 8-bits of data into a 10-bit transition minimixed, DC balanced character, which are transition-minimized to reduce EMI with copper cables and DC-balanced for transmission over fiber optic cables. The TMDS algorithm also provides robust clock recovery for greater skew tolerance with longer cables or low cost short cables.

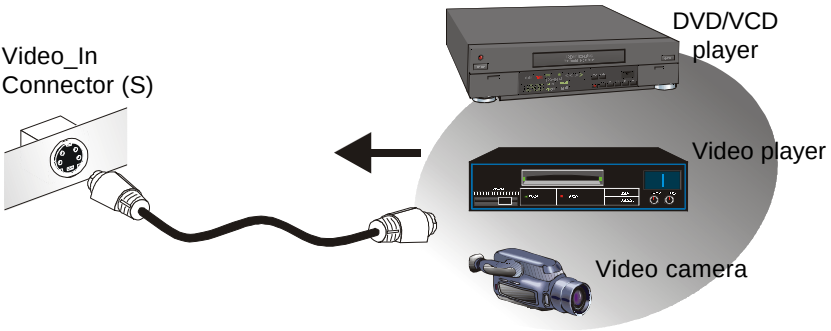
3.4 Video_In Connector (C)

The TV tuner card provides a Video _In connector for video-in function which allows you to input the image from video devices. Simply plug one end of the RCA cable into the Video_In connector on the TV tuner card, and the other end to the video output connector on your video devices. Most video devices support such kind of output connector. For the correct connection, please refer to the video devices' manuals for more information.



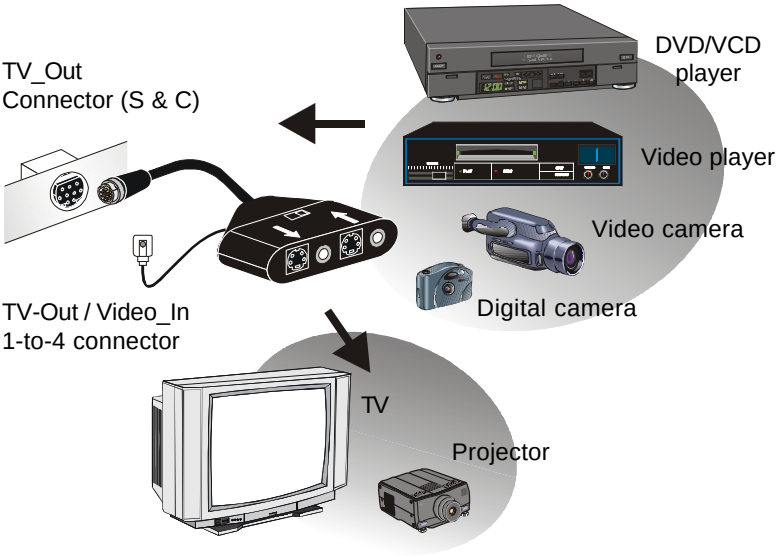
3.5 Video_In Connector (S)

The TV tuner card provides a Video_In connector for video-in function which allows you to input the image from video devices. Simply plug one end of the S_Video cable into the Video_In connector on the TV tuner card, and the other end to the video output connector on your video devices. Some video devices may support such kind of output connector. For the correct connection, please refer to the video devices' manuals for more information.



3.6 TV_Out / Video_In Connector (S & C)

The VGA card provides a 9-pin TV_Out / Video_In connector (S & C) for video-out / video-in function which allows you to output / input the image to / from a TV or video device. This type of connector can be used for either RCA cable or S_Video cable if the attached TV-Out / Video_In 1-to-4 connector is plugged in. Simply plug one end of the RCA cable or S_Video cable into the proper connector provided by the TV-Out / Video_In 1-to-4 connector, and the other end to the video input / output connector on your TV or video device. Most TVs and video devices support such kind of input / output connector. For the correct connection, please refer to the TV's and video devices' manuals for more information.



4

SOFTWARE INSTALLATION

This chapter describes how to install software for Windows XP, 2000, ME, 98SE, including the driver and useful utilities .

4.1 Installing the TV5700/TV5200-VTDF128

Besides the necessary VGA and TV tuner driver, there are some other utilites for your optional installation. All installation procedures will be introduced below.

4.1.1 Installing MSI VGA Driver

1. Turn on the computer.

2. Insert the CD provided into the CD-ROM drive. The Autorun program will start the Setup program and show the setup screen as follows.

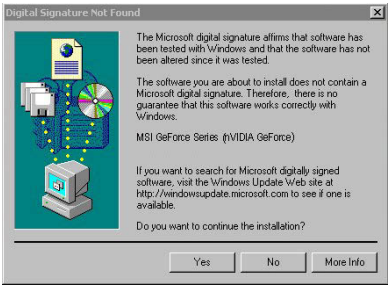
3. Click **Install MSI VGA Driver**. It will automatically install the drivers for both VGA card and integrated chipsets.

MSI reminds you...

- *If, on your computer, the "Autorun" program does not execute automatically, please **1)** enable the CD-ROM drive's auto-detect function from **Control Panel**; or **2)** find and run the **setup.exe** manually from the CD-ROM.*

- *The figures in this section are based on the tested platform and for reference only; the actual displays and information (such as settings, driver's version, etc.) on your system may be different.*

4. Click **Yes** to continue.


Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
MSI GeForce Series (nVIDIA GeForce)
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

5. Follow the on-screen instructions to complete the installation.

6. After finishing the installation, reboot the computer as instructed.

4.1.2 Installing MSI Capture Driver

If you want to input any optional video source, including the cable TV, to the VT5200-VTDF128, you must click **Install MSI Capture Driver**. Follow the on-screen instructions to complete the installation.

1 Click **Install MSI Capture Driver**.

2. Follow the on-screen instructions to complete the installation.

4.1.3 Installing InterVideo MSI PVS

The MSI PVS is a powerful software utility which provides the functions of TV channels browsing, reminding, reocrding, image capturing, time shifting, quality setting, remote controlling...

1. Turn on the computer.

2. Insert the CD provided into the CD-ROM drive. The Autorun program will start the Setup program and show the setup screen as follows.

3. Click **Install InterVideo MSI PVS.**

4. Follow the on-screen instructions to complete the installation.

Setup
MSIPVS Setup is preparing the InstallShield® Wizard, which will guide you through the rest of the setup process. Please wait.

4.1.4 Installing Philips TeleText

Teletext consists of pages of information, such as news and sport, which are viewed on a television set capable of viewing these pages. Its roots lie in the 70s, when the BBC and Oracle started the first test services. The actual teletext pages are broadcast in a hidden part of the television signal (the Vertical Blanking Interval), and decoded by the television. Teletext pages are accessed by a 3-figure number; on most channels, the front page is on page 100. Except news and sport, teletext contains financial information, such as the latest share prices, recipes, entertainment listings, holiday adverts, cinema, music and TV reviews, back-up information for certain TV programmes, and themed magazines, e.g. for kids. Teletext also broadcasts subtitles (better known in the United States as 'closed captions') on certain programmes, and news flashes which are overlaid on top of the TV picture.

MSI reminds you...

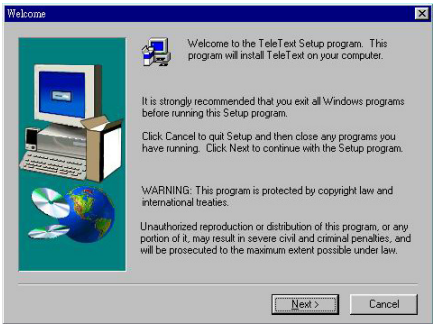
✦ *Teletext installation is needed only when TV system providers support teletext service. Please consult your TV system provider.*

1. Turn on the computer.

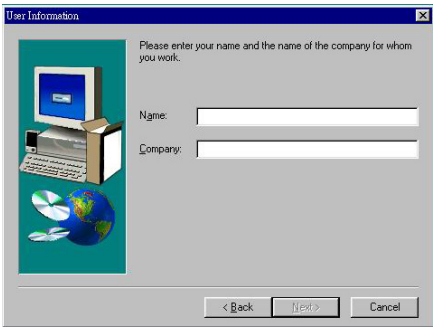
2. Insert the CD provided into the CD-ROM drive. The Autorun program will start the Setup program and show the setup screen as follows.

3. Click **Install Philips TeleText.**

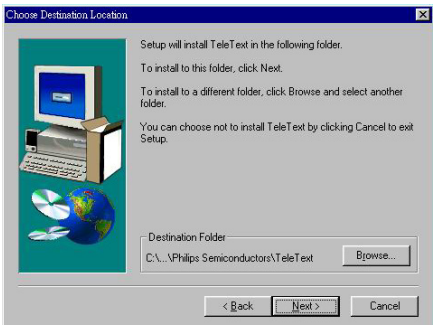
4. Click **Next** to continue.


Welcome
Welcome to the TeleText Setup program. This program will install TeleText on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Next >
Cancel

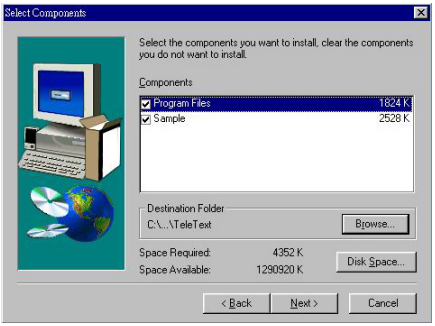
5. Enter user's information and click **Next** to continue.



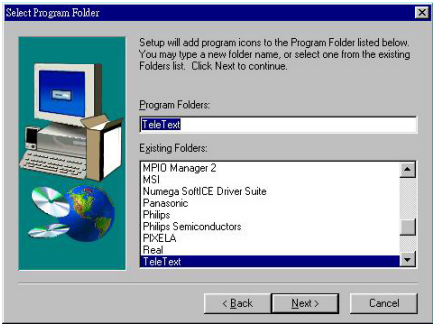
6. Select a destination location and click **Next** to continue.


Choose Destination Location
Setup will install TeleText in the following folder.
To install to this folder, click Next.
To install to a different folder, click Browse and select another folder.
You can choose not to install TeleText by clicking Cancel to exit Setup.
Destination Folder
C:\...\Philips Semiconductors\TeleText
Browse...
< Back
Next >
Cancel

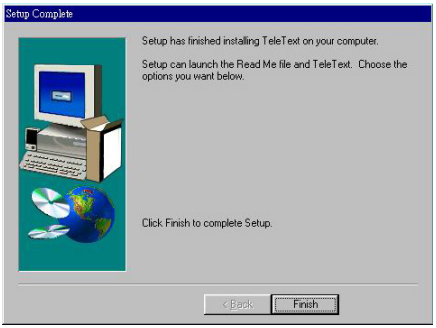
7. Select components to be installed and click **Next** to continue.



8. Select program folder and click **Next** to continue.



9. Click **Finish** to finish the installation.


Setup Complete
Setup has finished installing TeleText on your computer.
Setup can launch the Read Me file and TeleText. Choose the options you want below.
Click Finish to complete Setup.
< Back
Finish

4.2 Installing the TV@nywhere Series

To install the driver and utilities of the TV tuner card to your computer, please follow the steps below.

4.2.1 Installing MSI PVS Driver

1. Turn on the computer.

2. Insert the CD provided into the CD-ROM drive. The Autorun program will start the Setup program and show the setup screen as follows.

3. Click **Install MSI PVS Driver**.

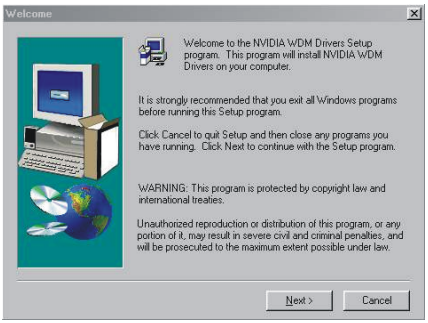
MSI reminds you...

- *If, on your computer, the "Autorun" program does not execute automatically, please **1)** enable the CD-ROM drive's auto-detect function from **Control Panel**; or **2)** find and run the **setup.exe** manually from the CD-ROM.*

- *The figures in this section are based on the testing platform and are for reference only; the actual displays and information (such as settings, driver's version, etc.) on your system may be different.*

4. The status bar shows the installation procedure.

5. Click **Next** to continue.


Welcome
Welcome to the NVIDIA WDM Drivers Setup program. This program will install NVIDIA WDM Drivers on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Next >
Cancel

6. Follow the on-screen instructions to complete the installation.

7. After finishing the installation, reboot the computer as instructed.

4.2.2 Installing InterVideo MSI PVS

Please refer to 4.1.3.

4.2.3 Installing Conexant TeleText

Please refer to 4.1.4. The pictures used in 4.1.4 are for reference only.

Note

5

HOW TO USE MSI PVS

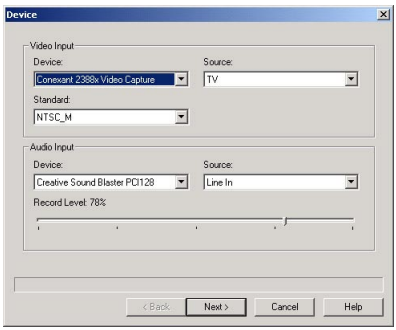
This chapter describes how to use MSI PVS. The MSI PVS is a powerful software which provides the functions of TV channels browsing, reminding, recording, image capturing, time shifting, quality setting, remote controlling, and so on.

5.1 Launching MSI PVS for the First Time

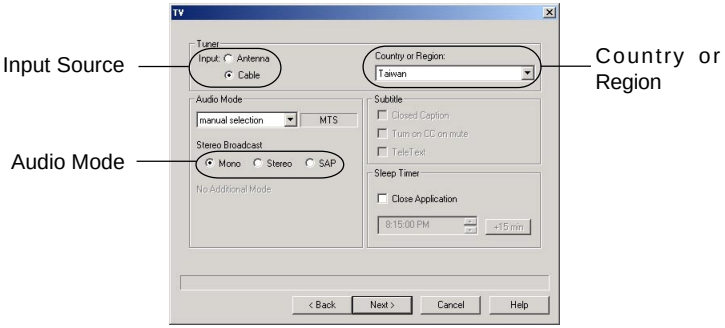
When launching MSI PVS for the first time, you must input some information to set up MSI PVS. You can also modify these information later. Please follow the steps below:

1. Click the MSI PVS icon on the desktop.

2. The Device dialogue box will show your video and audio input source.

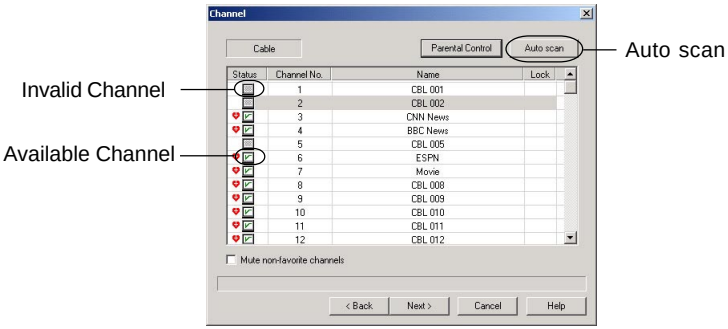


3. Click **Next**.



4. The TV dialogue box will show the input source, region and audio mode. The default input source of the tuner is from Antenna.

5. Click **Next**.

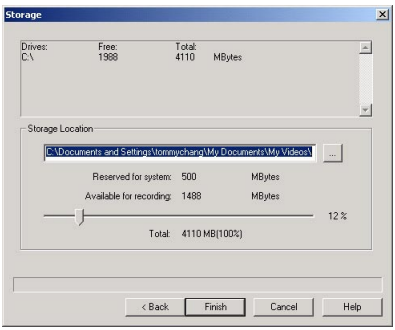


6. In Channel dialogue box, click **Auto scan**, and then the MSI PVS will scan and list the avaiable channels in the channel table.

MSI reminds you...

- ✦ *While MSI PVS is scanning for channels, each channel will briefly appear in the display window. At any point, you can interrupt the scanning process by clicking* ***Stop auto scan****.*
- ✦ *When Auto scan is finished, available channels are automatically enabled and marked with a* *icon. Channels, where valid content could not be detected, are disabled and marked with a* *icon.*

7. Click **Next**.



8. In Storage dialogue box, you can change the location of the files recorded. Click **Finish** to complete the initial settings.

5.2 The Control Keys of MSI PVS

Operating MSI PVS is done by using the MSI PVS control panel or attached remote controller. The MSI PVS control panel is designed to look like controls on a VCR. Keep in mind that not all options are available at all times, and may be grayed out or inaccessible depending on your hardware setup and TV services available.

The following pages provide descriptions for the functions of MSI PVS control panel and remote controller.

5.2.1 MSI PVS Control Panel

Buttons

Expand/hide (expanded view), minimize, maximize, and exit MSI PVS

Channel Up - Jump up to next available channel

Channel Down - Jump down to next available channel

Last Channel - Jump back to last selected channel

Record - Start recording TV in the selected format

Timeshifting - Start the Timeshifting

Play - Begin playback of recorded program

Stop - Stop current action (e.g. recording, playback, Timeshifting, etc.)

Pause - Suspend current action (e.g. playback, live TV, recording, etc.)

Surfing - Browse

WM Streaming - Activate and set TV@nywhere (Browsing TV via the Internet)

MSI Radio - Launching MSI Radio

Schedule - Open window for scheduling recordings, or reminders for program times

Still Capture - Capture still images of current program

Properties - Open MSI PVS properties window

Mute - Press to mute or restore sound

Online Help System - Open HTML help file

iAccess - A direct link to online product and upgrade information

Volume Control - Increase or decrease volume intensity

Time Monitoring Bar

Time control shuttle - Shows general elapsed time or time remaining, also jump to specific time in program

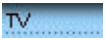
Instant Replay - Replay a preset amount of time

Skip Commercial - Skip ahead a preset amount of time

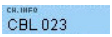
Go To Live - When Timeshifting, returns to current time in program

Display Area

Displays the current process, e.g. TV/video feed or recording mode.



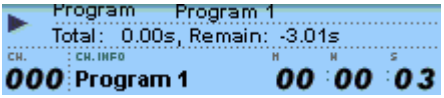
Displays the selected video input source.



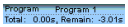
Displays currently selected TV channel.

Displays current time.

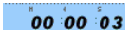
Playback / Record



Displays the current process, e.g. playback or record.



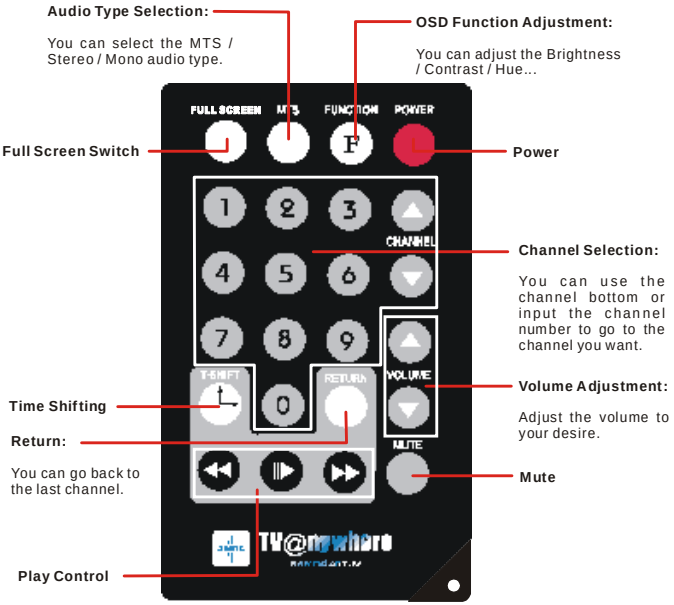
Displays the program currently being played, total program time, and how much time remaining.



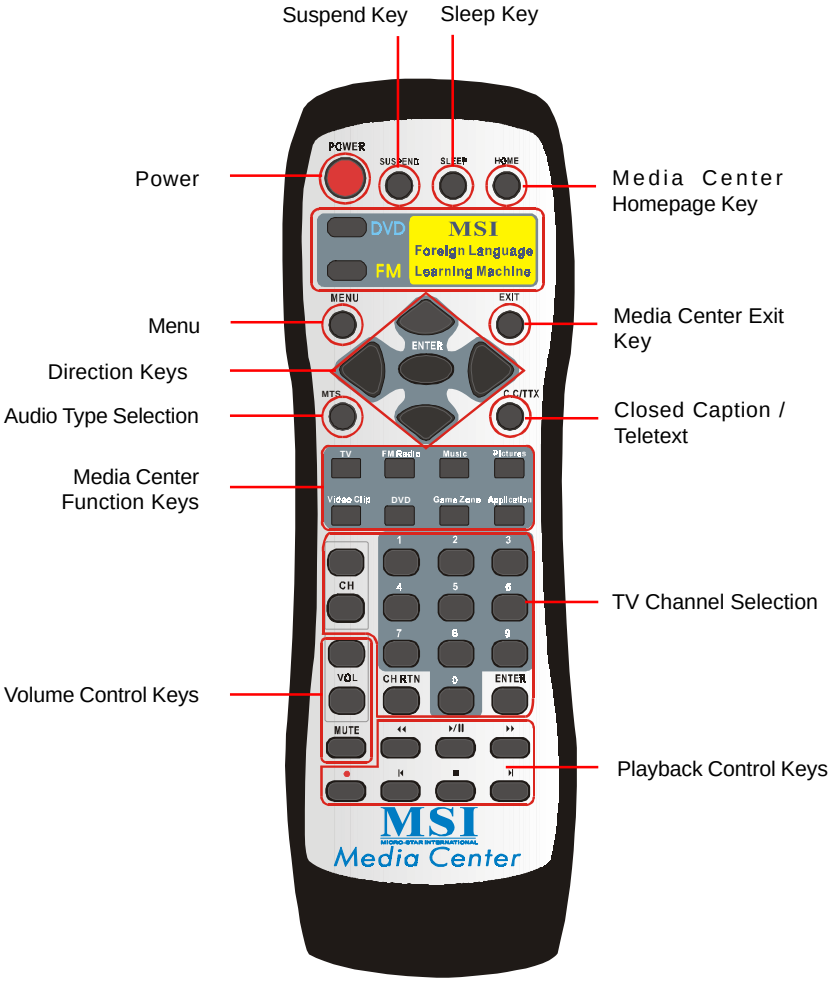
Displays the elapsed time.

Displays channel information

5.2.2 Remote Controller



(For TV@nywhere-Master or TV@nywhere)



(For TV5700/TV5200-VTDF128)

5.2.3 The Right-Click Menu

At any time while running MSI PVS, you can put the cursor on the display window and right click to see a pop-up text menu. This menu will also appear when you press the “B” key on your keyboard. The commands on this right-click menu are the same as those on the MSI PVS control panel, along with some extra options added. The right-click menu is explained below.

Instant Replay - Replay a preset amount of time

Skip Commercial - Skip ahead a preset amount of time

Go to Live - When Timeshifting, returns to current time in program

Play - Begin playback of recorded program

Pause - Suspend current action (e.g. playback, live TV, recording, etc.)

Stop - Stop current action (e.g. recording, playback, Timeshifting, etc.)

Record - Start recording TV and encoding it into MPEG-2 format

Mute - Press to mute or restore sound

Channel Up - Jump up to next available channel

Channel Down - Jump down to next available channel

Last channel - Jump back to last selected channel

Surfing - Browse thumbnail images of available channels

Schedule - Open window for scheduled recordings or reminders for program times

Zoom and Pan - Zoom in and out on the playing channel

Timeshifting - Start Timeshifting

Still Capture - Capture still images of current program

Setup - Open MSI PVS properties window

Panel - Display or hide the MSI PVS control panel

Aspect Ratio - Set the aspect ratio of the display window

Screen Size - Set the display window to your choice of default values

WM Streaming - Active and set TV@nywhere (Browsing TV via the Internet)

About - Shows version and copyright information

Exit - Close MSI PVS

5.2.4 Keyboard shortcuts

Each button on the MSI PVS control panel has an equivalent keyboard shortcut. These are also called hot keys. These keyboard shortcuts are only active when MSI PVS is the active program. When two keys are shown, hold down the first key and press the second key at the same time.

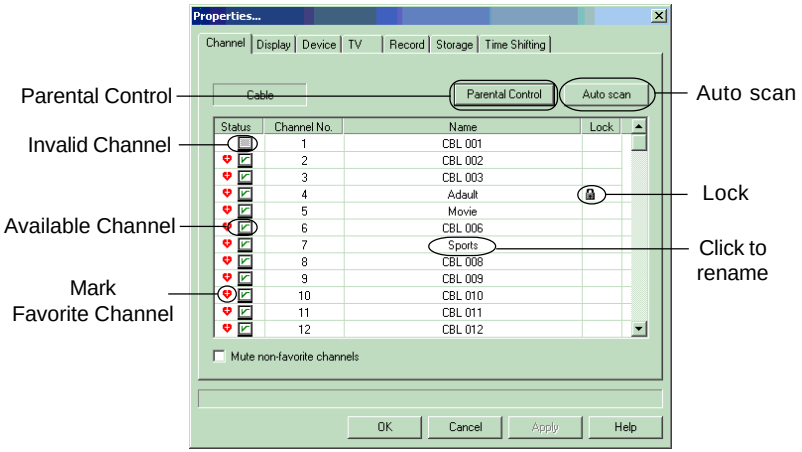
Function	Keyboard Shortcut	Function	Keyboard Shortcut
Auto Scan for available channels.	A	Schedule	V
Pop-up the right-click menu.	B	Exit	X
Show or hide Closed Captions	C	Change Display window from full screen or window	Z
EPG (Electronic Program Guide)	E	Channel Up	[PgUp]
Open the online help system	H	Channel Down	[PgDn]
Select the video input source	I	Direct jump to channel	numeric keypad
Channel surf	K	Play/Pause	[spacebar]
Last channel	L	Record	[Home]
Mute or restore sound	M	Stop	[end]
Go to Live	N	Select	[Enter]
Open the Properties window	O	Increase volume	[Shift]
Capture still image	P	Decrease volume	[Shift]
Instant Replay	R	Increase brightness	+
Skip Commercial	S	Decrease brightness	-
Start Timeshifting	T		

5.3 Customizing MSI PVS

Use the Property settings to control how MSI PVS looks and functions. Click the Properties button to open the Properties dialog box. The Properties dialog box is composed of tabbed pages, each with its own group of feature-specific settings.

5.3.1 Channel Property

The Channels property page allows you to customize and configure your TV channels. MSI PVS can automatically scan your cable or antenna signal for available channels. Here you can label and identify your favorite channels, as well as include or exclude channels from the channel surfing list.



Auto Scan

Use the **Auto Scan** feature to automatically scan for available TV channels.

1. Press the **Auto scan** button.

2. MSI PVS will automatically scan all available channels for content. The number of channels available varies depending on whether you are using an antenna or cable TV, along with the country settings supported by your TV tuner.

3. While MSI PVS is scanning for channels, each channel will briefly appear in the display window. At any point, you can interrupt the scanning process by pressing the **Stop auto scan** button.

4. When **Auto scan** is finished, available channels are automatically enable and marked with a icon. Channels, where valid content could not be detected, are enable and marked with a icon.

5. After you are finished scanning for available channels, you may select **OK** to return to the display window, or customize the channel list according to your preferences.

Channel Naming

When MSI PVS is finished scanning for valid content, all channels will initially be named and numbered using the following convention: CBL001, CBL002, etc. for cable input or alternatively ANT001, ANT002, etc. when using an antenna input.

You can customize the channel names using the following steps.

1. Click the channel you want to rename.

2. Type a new name in the text box.

3. Repeat steps above for any additional channels you want to rename.

4. Click **Apply** and **OK** to confirm the modifications you made.

Set Favorite

During the **Auto scan** process, MSI PVS automatically detects and enables channels with valid content. These channels will be marked with a By default, every available channel will be set as a favorite and marked with the icon. You might want to create a shorter list of your favorite channels to reduce channel browsing time. You can customize your list by enabling or disabling channels as favorites from the channel list by using the following steps.

There are two ways to enable or disable channels from the favorites list.

1. Highlight the channel you want to enable or disable as a favorite.

2. The current name and channel number appear on the right side of the property page. Below the name of the channel is a checkbox labeled **Favorite**.

3. Mark the checkbox to set the channel as a favorite, or unmark to disable.

4. Repeat steps above for any additional channels you want to modify.

Alternatively, you can click directly in the first column, under Channel ID, next to the channel you are targeting.

Parental Control

The parents can prevent their children from watching some unsuitable channels such as adult or violent movies by setting the Parent Control. Once the channel has been set as parental control, the icon will appear. When you use [PgUp] or [PgDn] to browse channles, these channels which have been set as parental control will be skipped. If you browse these channles with the remote controller or double click these channels on the channel list, the parental control dialog box will show and ask you to enter password.

There is only one set of parental control password for all channels. Use the password that you have preset for any channels that you want to lock.

Leave blank for the first setting. If you want to change the password later, enter the previous password that you have set.

1. Click the channel you want to lock, and then click **Parental Control**.

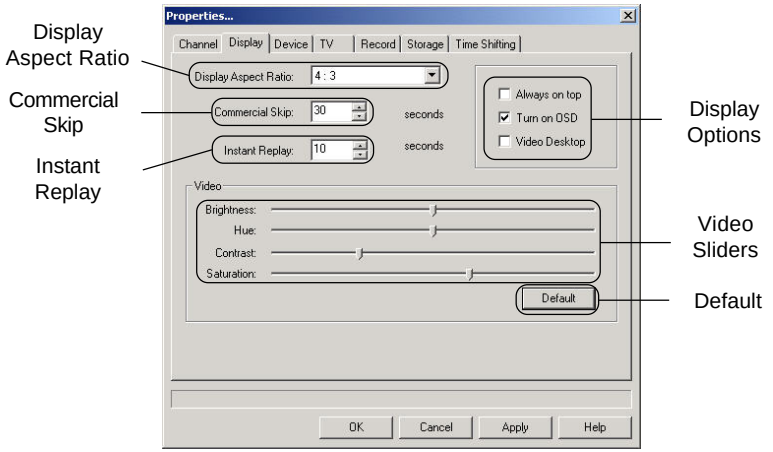
2. When setting password for the first time, leave the **Old Password** box blank and enter new password. Please remember the password!!! **(If you want to change the password later, you must enter the previous password in the Old Password box.)**

3. Confirm the password and click **OK**.

4. Click **Lock** column in the channel list and enter password to lock another channel.

5.3.2 Display Property

The Display properties page allows you to configure the way MSI PVS displays video.



Display Aspect Ratio

The size of the display window is determined by choosing between three aspect ratio formats.

Free - Unlocked aspect ratio
4:3 - Standard
16:9 - Wide screen

If you set the aspect ratio to one of the two fixed options, **4:3** or **16:9**, the display window will always preserve and adjust to that aspect ratio. If you set the aspect ratio to **Free**, you can freely resize and stretch the display window.

MSI reminds you...

✦ *If the aspect ratio of the display window does not correspond with the actual aspect ratio of the video input, the video image may appear stretched or deformed.*

Always on Top

When you select the checkbox next to **Always on top**, the display window will always be visible, even when you are running other programs.

Turn on OSD

When you select the checkbox next to **Turn on OSD** (On-screen Display), channel information such as channel numbers, channel names, and audio quality will be displayed as you switch channels. When this box is unmarked, no information will be displayed.

Video Desktop

Selecting the checkbox next to **Video Desktop**, the display window will become the desktop when your watch TV program with full screen mode. However, under video Desktop mode, you cannot do any control or modific action on it. You can only click the icon on taskbar to active it as partial windows mode.

Video Sliders

Use the sliders in this area to adjust:

Brightness - Adjusts the amount of white in the image.
Hue - Adjusts whether the image looks red, green, blue, yellow, orange, etc.
Contrast - Adjusts the gradation of tone between the image highlights, mid-tones, and shadows.
Saturation - Adjusts the color intensity of the image.

Pressing the **Default** button will reset the slider values to their original positions.

Commercial Skip

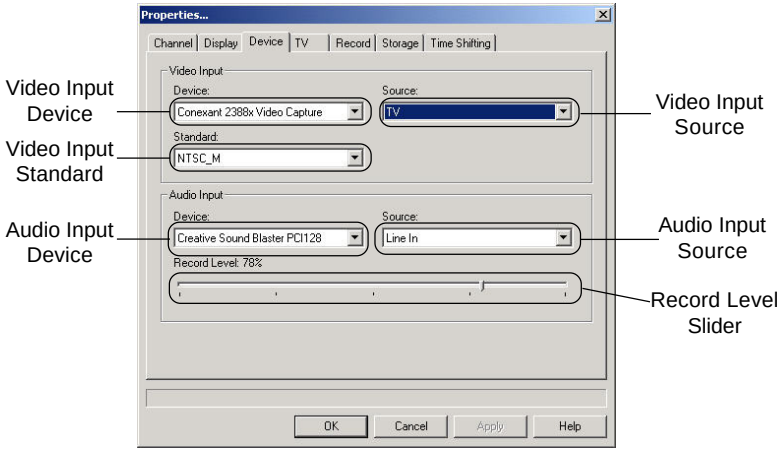
Select the amount of time to jump forward when using the commercial skip feature.

Instant Replay

Select the amount of time to jump back when using the instant replay feature.

5.3.3 Device Property

The Device properties page, allows you to configure the device that MSI PVS displays is using.



Video Input Device

This item will show the chipset that your tuner card is using.

Video Input Standard

Select the proper video standard for your area from the dropdown menu. The options available depend on the standards supported by the input source. Usually you don't have to select the standard for MSI PVS because this item will change automatically according to the region or country you choose. A brief explanation for the different standards is given below.

When the National Television Systems Committee (NTSC) prepared the standards for commercial television broadcasting in the United States, Canada, Japan, and parts of Central and South America, they decided on 525 lines of display at thirty frames per second. In most of Europe, Australia, and parts of Central and South America, however, the Phase Alteration Line (PAL) standard, using 625 lines at 25 frames per second, was used. In addition, each TV system uses a slightly different range of TV frequencies.

Video Input Soruce

You can choose the source of video from TV cable, video device with S-Video connector or video device with RCA connector.

TV	- Video source from TV cable
S-Video	- Source from device which supports S-Video output
AV-Video	- Source from device which supports AV-Video output

Audio Input Device

This item will show the chipset that your audio card is using.

Audio Input Source

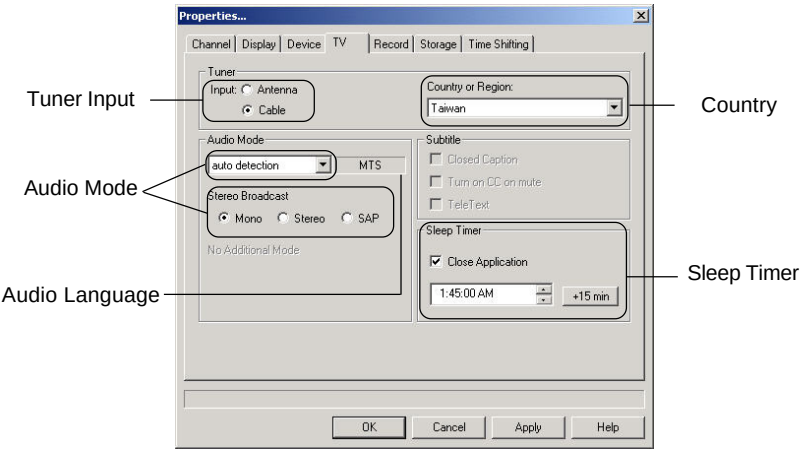
This item will show the audio source that your audio card is using. The options in this item may vary according to the hardware of your audio card.

Record Level

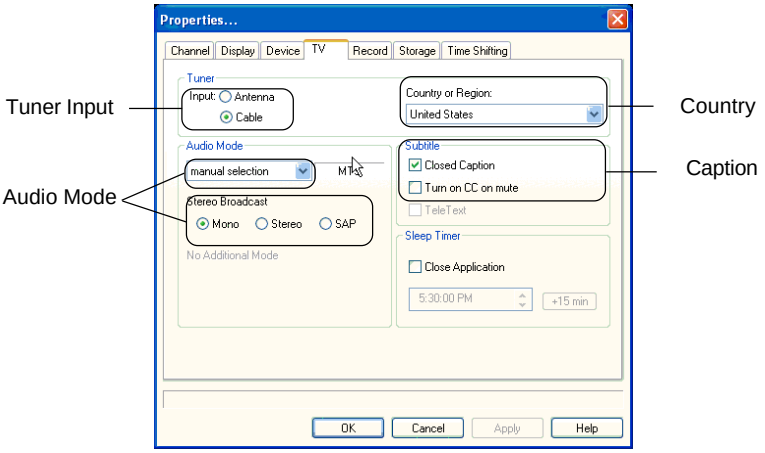
This slider allows you to adjust the volumn of audio that you are recording.

5.3.4 TV Property

The TV properties page allows you to configure the specifications of your TV tuner and TV audio settings. Some functions on this page may vary according to the different region, countries or TV system providers.



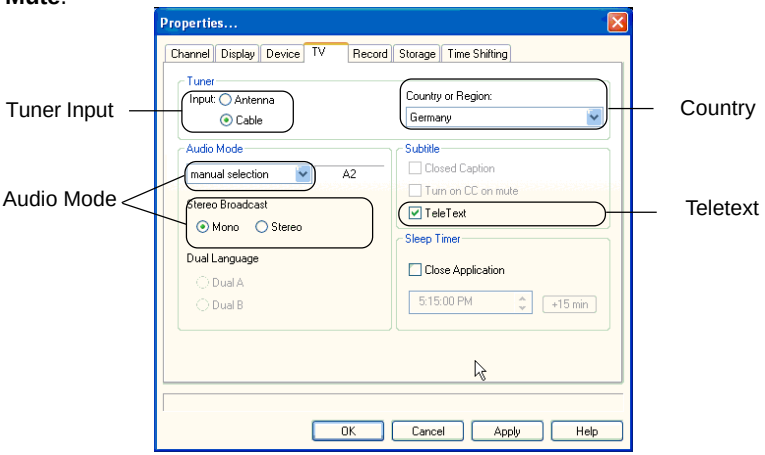
Taiwan / NTSC



U.S.A. / NTSC

Caption

In some area, the TV programs come with hided caption. Check the box next to **Closed Caption**, and then you can see the caption. If you want to see the caption only when the TV program is muted, check the box next to **Turn on CC on Mute**.



Germany / PAL

Teletext

Teletext consists of pages of information, such as news and sports, which are viewed on a TV set capable of viewing these pages. This function is available only when the TV system privider supports teletext service.

Tuner Input

Select the source for your TV tuner. Define whether you are using an **Antenna** or **Cable** TV.

Country

Select the country where you are currently using MSI PVS from the dropdown menu. This will allow MSI PVS to detect the correct set of frequencies for your location.

Audio Mode

Choose the audio quality, stereo or mono, by clicking on the appropriate radio box.

Audio Language

In some countries, a secondary audio channel might be available. This channel has a wide variety of uses, e.g. broadcasting language translations, reading services for the visually impaired, and weather forecasts. Select which language channel you want to use by clicking the appropriate radio box.

Sleep Timer

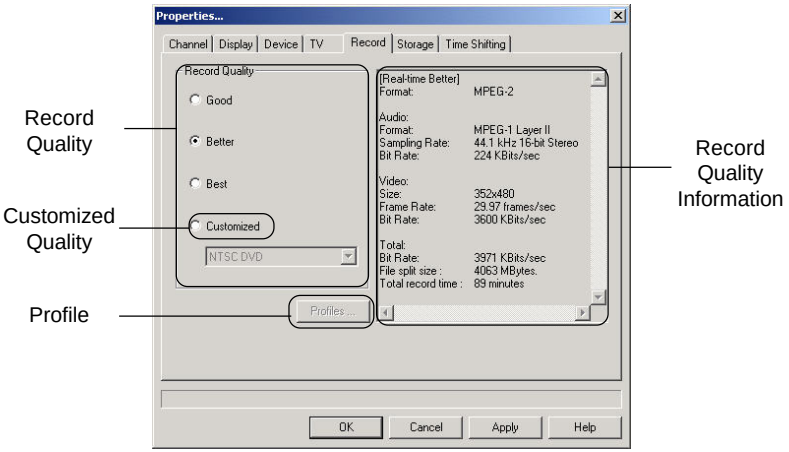
MSI PVS will close automatically when the time that you set expires. You can input time directly in the box or click **+15 min** to set the sleep timer. To active this function, you must select the checkbox next to **Close Application**.

MSI reminds you...

✦ *Stereo sound is supported in most, but not all countries, and may be unavailable for selection.*

5.3.5 Record Property

The Record property page allows you to set the recording quality.



Record Quality

Here you can select the output quality of recorded programs. During installation, MSI PVS will automatically detect crucial system hardware components, and set a recommended recording quality level based on your configuration.

You can adjust the recording quality by choosing one of the preset levels, or define your own customized settings. The record settings related with each quality level are displayed on the right.

Below is an example of values that MSI PVS might propose for each record level, when using a system with a Intel Pentium III 550MHz installed.

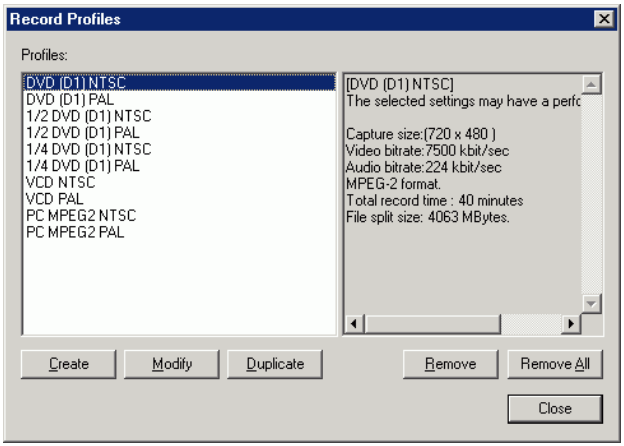
Record Quality	**Good**	**Better**	**Best**
Capture Size *	320x240 pixels	640x480 pixels	640x480 pixels
Video bitrate **	2000 kbit/sec	5000 kbit/sec	6000 kbit/sec
Audio bitrate **	224 kbt/sec		

MPEG4 Record Quality

If you want to record TV program in MPEG4 format, select radio box next to **Customized** and choose **MPEG4** from the dropdown menu.

Customized Record Quality

Click the radio button next to **Customized**, and click **Profile** to setup a customized recording quality. You can highlight the file in the profiles list, and then click **Modify** to modify the content of the record quality. You can also duplicate the selected file by clicking **Duplicate**. If you want to create a new record quality, you can click **Create**, and then another property window will become available, allowing the following customizations.

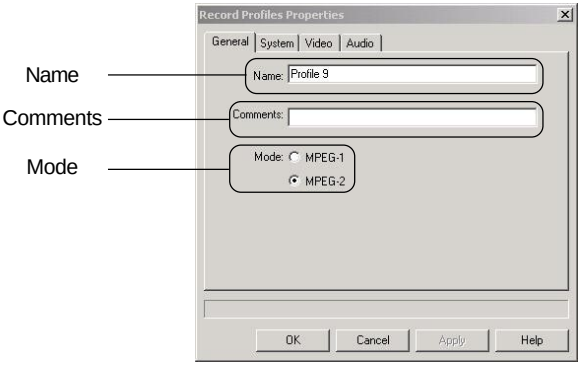


1. In the **Name** tab, enter a name for the new profile.

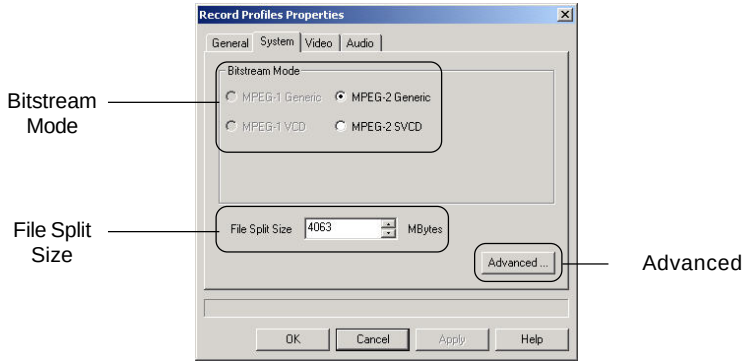
2. In the **Comments** tab, enter the description for the new profile

3. Set the record **Mode** by selecting the radio box next to MPEG-1 or MPEG-2.

The MPEG Format specifies whether the video files are to be recorded in MPEG-1 or MPEG-2 format. In general, you would use MPEG-2 if you are making files that will be played by on this machine or published with InterVideo's MyDVD authoring software. MPEG-2 combines high-quality with compact file sizes. Since an MPEG-1 decoder is included with current Windows operating systems, use it for making lower resolution recordings for playback on many PCs.



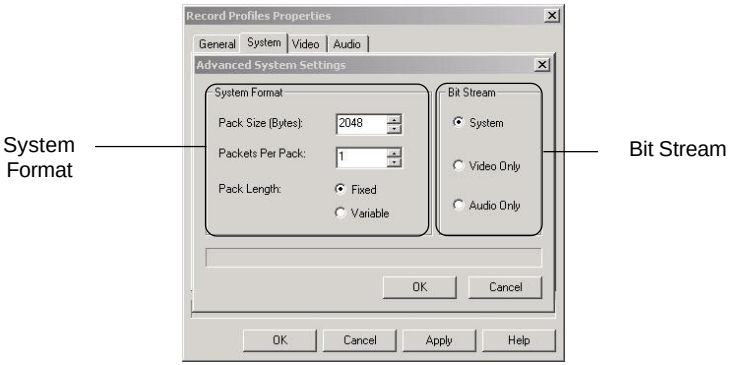
4. Click **Apply** to confirm the modifications you made, and then click **System** tab.



5. Set up the **Bitstream Mode** by selecting the available radio box.

6. In the **File Split Size** tab, you can enter the size of reocrding file. When the reocrding file size expires the value, it will be stored into another new file.

7. Click **Apply** to confirm the modifications you made, and then click **Advanced** tab.



MSI reminds you...

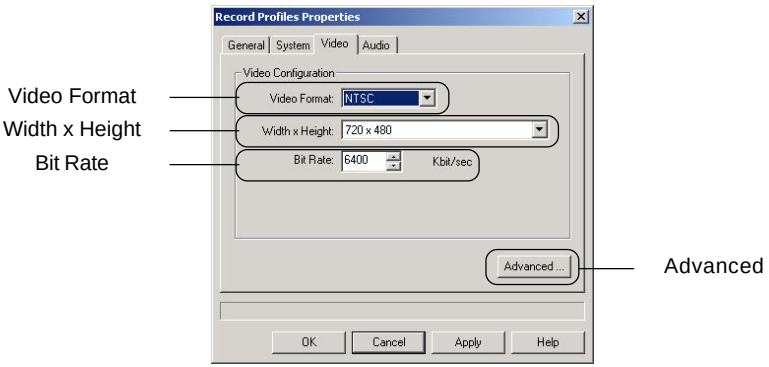
✦ *The System Format settings control the packing of the video and audio data in the MPEG program stream. These settings would only be changed to meet the needs of a specific media format. These settings are for genuine experts only! If you are not familiar with these settings, don't change them!*

The **Bit Stream** allows you to determine whether the recorded stream contains both video and audio (System) or only one of these. This may be useful, for example, if you want to capture background music for a movie in the MPEG audio format. Of if you are transferring some video content that does not have an audio soundtrack, such as a dub from an old home movie.

8. Set up **System Format** if necessary.

9. Set up **Bit Stream** by selecting the radio box.

10. Click **OK,** and then in **System** tab click **Apply** to confirm the modifications you made. Click **Video** tab for next setting.



The Video tab allows you specify the MPEG Video settings.

Video Format Sets the Video record format. Use the down arrow to select on of the video format options: COMP, PAL, NTSC, SECAM, MAC or Unspecified.

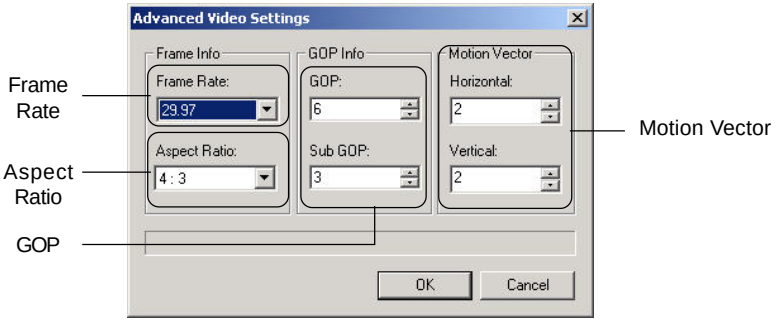
Width x Height specifies the Video recording resolution. Only resolutions supported by the currently-selected video input device are included in this drop-down menu. When making changes to a Transcode Profile, this setting is grayed out, as the resolution of the file is not changed by the transcode operation.

The **Bit Rate** sets the Video bit rate, which can be set between 100 and 10, 000 kb/sec. Settings below 1000 or over 6000 are generally not recommended. Keep in mind that the bit rate is the thing that determines the size of the output file. For reference, typical MPEG-2 settings are 2000 Kbit/sec for a 320x240 image, and 6000 Kbit/sec for a 640x480 stream. At any given resolution, if you see excessive 'blockiness' in the recorded image, try increasing the bit rate to reduce this effect. If your files are larger than you want, try reducing the bit rate the lowest setting that gives you acceptable image quality.

11. Choose the **Video Format** from the dropdown menu.

12. Set up **Width x Height** and **Bit Rate**.

13. Click **Apply** to confirm the modifications you made, and then click **Advanced** tab.



This allows you to change the following advanced MPEG Video settings:

The recording **Frame Rate** can be set between 23.97 and 60 frames per second. Selecting the down arrow in the Frame Rate box lists the available frame rates. The standard frame rate for NTSC video is 29.97 fps and for PAL is 25 fps.

Aspect Ratio sets the MPEG aspect ratio for the captured video. Use the down arrow to select one of the aspect ratio options: Square, 4 : 3, 16 : 9, 211 : 1. Note that this is different from the display aspect ratio setting in the Display tab of the Properties dialog box.

GOP (Group of Pictures) can be set between 1 and 15 by using the up and down arrows in the GOP box. The GOP size is the number of frames between I-frames in the MPEG stream. The larger the GOP size, the more compression is done on the video.

Sub GOP can be set between 1 and 3 by using the up and down arrows in the Sub GOP box. The Sub GOP is the number of frames between the B-frames in the MPEG stream.

Motion Vector

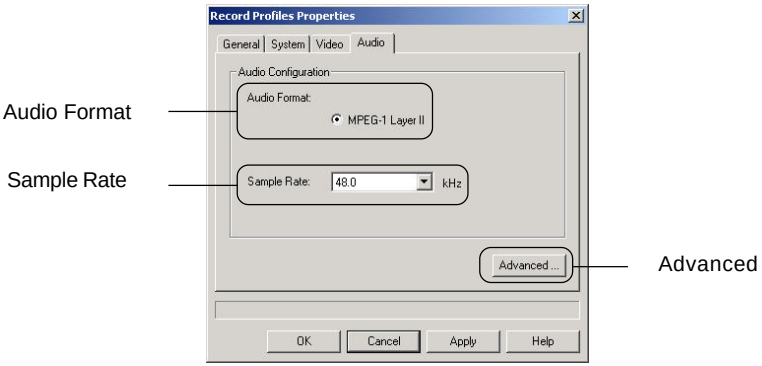
Horizontal Sets the Horizontal motion search range.
Vertical Sets the Horizontal motion search range.

Larger values for the motion vector reduce artifacts on rapidly moving objects, but require more CPU power.

MSI reminds you...

✦ *DANGER!!! Unless you are technically familiar with the settings in this dialog, it is unlikely that you will achieve better overall performance than the default settings.*

14. Choose the **Fram Rate** and **Aspect Ratio** from the dropdown menu.
15. Set up **GOP** and **Sub GOP**.
16. Set up **Motion Vector**.
17. Click **OK,** and then in **Video** tab click **Apply** to confirm the modifications you made. Click **Audio** tab for next setting.



In **Audio Format** option, at present, only Layer II of the MPEG audio encoding is supported by MSI PVS.

18. Choose the **Sample Rate** from the dropdown menu.
19. Click **Apply** to confirm the modifications you made, and then click **Advanced** tab.

Bit Rate - Audio bitrate is expressed in kilobits per second. The higher the bitrate, the more processing power is required to record or playback a file.

Mode - Select the audio quality mode.

Stereo - For stereo, all audio channels are mixed down to 2 channels.

Join Stereo - Finds redundancies between left and right channels, and achieves a higher compression ratio.

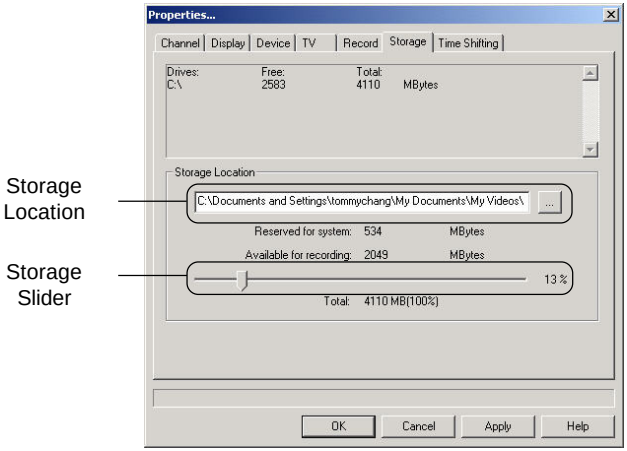
Dual channel - Dual-channel processing allows control of completely independent effects on the left and right channels.

Mono - If you select mono, the two channels will be mixed into one.

20. Select proper radio box for audio recording.
21. Choose **Bit Rate** from the dropdown menu.
22. Click **OK,** and then in **Audio** tab click **Apply** to confirm the modifications you made. Click **OK** to finish the customized record quality settings.

5.3.6 Storage Property

The Storage properties page allows you to assign the amount of space and location, for storing recorded programs and captured still images.



Storage Location

Click the ... icon to browse for the drive and folder path where you want to store recorded programs and captured still images.

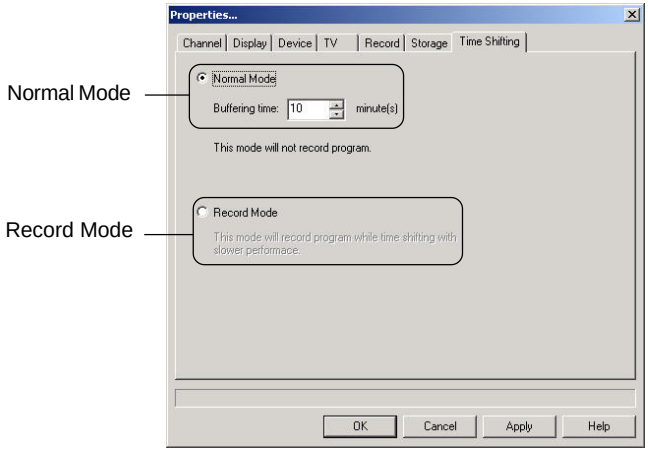
Storage Slider

Next, use the slider to set the maximum amount of disk space you want to assign for recorded files. The total amount of recording time is limited by the drive space available.

The top section of the page provides a quick overview of the drives in your system, and available free space.

5.3.7 Timeshifting Property

The Timeshifting properties page allows you to configure the Timeshifting mode. The Timeshifting mode can either be set to Normal or Record mode. These options are described below.



Normal Mode

Normal Mode allows you to use the Timeshifting feature without recording the complete program. Using this mode provides faster performance, but you are restricted to using the Timeshifting feature within a limited time buffer. You can adjust the buffering time to optimize performance with your hardware.

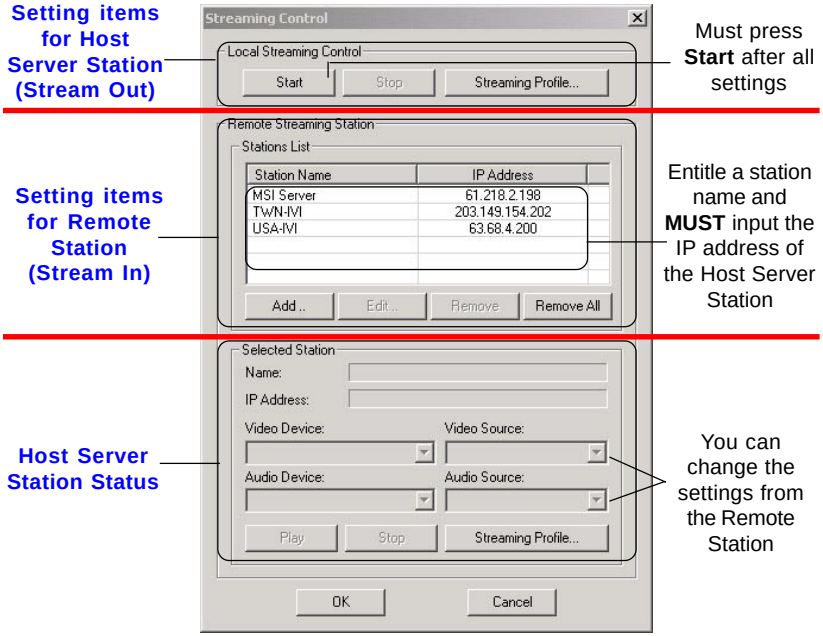
Record Mode

Record the program in real time, while using the Timeshifting feature. This mode requires more system resources, and may perform slower during recording and playback, depending on your hardware. By using this mode for Timeshifting, you are not limited by the buffering time.

5.4 Using MSI PVS

5.4.1 TV@nywhere

This function allows you to browse TV programs and control MSI PVS from the remote site through the Internet. Click the icon on the control panel to active the TV@nywhere setting window.

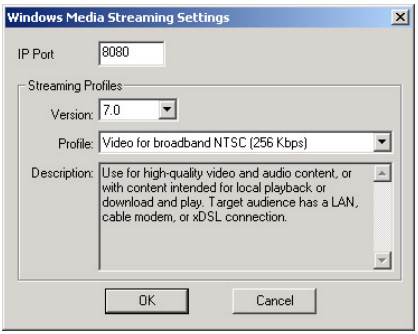


Setting the Host Server Station (Stream Out)

The equipment of the host server station must meet the following:

- Broadband Internet Access > 64 kbps (Upload)
- TV Tuner Card
- MSI PVS installed
- Static IP Address

1. Click **Streaming Profile** to set streaming quality.


Windows Media Streaming Settings
IP Port
8080
Streaming Profiles
Version:
7.0
Profile:
Video for broadband NTSC (256 Kbps)
Description:
Use for high-quality video and audio content, or with content intended for local playback or download and play. Target audience has a LAN, cable modem, or xDSL connection.
OK
Cancel

MSI reminds you...

✦ *The higher the value of profile is, the better the image quality will be; however, the more resources of your Internet will be occupied.*

2. Click **OK**.

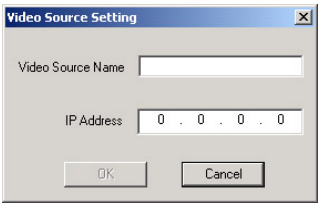
3. Click **Start**.

Setting the Remote Station (Stream In)

The equipment of the host server station must meet the following:

- Broadband Internet Access > 64 kbps (Download)
- MSI PVS installed
- The access of the Host Server Station's IP Address

1. Double click a Host Server Station from the list. You can also click **Add** or **Edit** to set up a new Host Server Station.



2. The Host Server Station status will be showned. Then click **Play.**

3. Click **OK.**

4. Wait for the image sent from the Host Server Station**.**

MSI reminds you...

- *Keep your Host Server Station running, or you cannot use TV@nywhere on the Remote Station.*
- *When you change channel from the Remote Station, the channel on the Host Server Station will follow.*
- *The Property, Timeshifting and Recording will be void while TV@nywhere is using.*
- *There is a short bit delay when you do any changes to the Host Server Station; for example, channel switching, transfer rate changing, and so on.*

5.4.2 Channel Surfing

Before you can use the channel surfing feature, you must configure TV properties *(see 5.3.4)*.

When watching TV, use the channel surfing feature to display a 4x4 grid of channel images in the display window for a quick overview of available programs. To start the channel surfing feature, press on the MSI PVS control panel.

Thumbnail images will begin to appear in the display window. You may preview a program by clicking once on the image. The program will be displayed for three seconds, then surfing will resume. If you decide you would like to jump to that program, double click on the image.

To return to normal view, end channel surfing by pressing again.

5.4.3 Channel Browsing

When watching TV, you can browse channels by clicking and to scroll up and down through the available channels. The keyboard shortcuts PgUp and PgDn, can also be used to perform this function.

You can also jump directly to the channel number you wish to watch by using your numeric keypad. Click to jump back to the last selected TV channel.

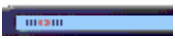
When the On-screen Display function is enabled on the Display Proper page, relevant channel information will appear briefly in the top-left corner of the display window as you switch channels.

5.4.4 Timeshifting

The Timeshifting feature allows you to pause, replay, or skip commercials during live TV, without interrupting an ongoing recording session. Timeshifting gives you absolute control over how you watch television. You can take a break watching a live show, and pick up where you left off, or instantly jump back to live view.

First, choose the Timeshifting mode using the Timeshifting property page. You can decide whether to use the Timeshifing feature within a limited buffer time frame, or record a show without any time limits.

Click , the Time Monitoring bar will appear.

Use  to jump to a specific time in the program.

Click to replay a preset amount of time.

Click to jump ahead a preset amount of time.

Click to instantly jump back to Live mode.

Timeshifting and Playback mode differ, in that Timeshifting allows you to pause and replay live TV then resume watching it after a delay or return to real time. Playback only allows you to replay a previously recorded program.

5.4.5 Volume Adjusting

Use the volume slider to adjust the volume intensity. Click on the display area of the control panel to mute or restore sound. Alternatively, use keyboard to control the volume.

Press “Shift”+”Up” to increase volume.

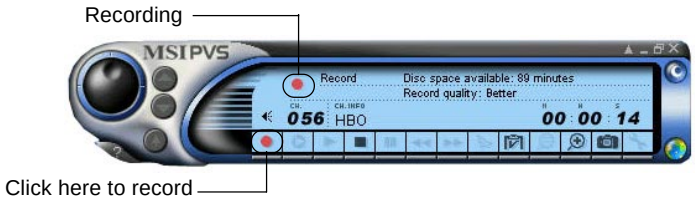
Press “Shift”+”Down” to decrease volume.

Press M to mute or restore sound.

5.4.6 Channel Recording

MSI PVS is a digital video recording tool. You can use MSI PVS to record a stream of full-motion video plus audio from your video source and save it in real-time using MPEG-2 encoding directly to a designated location on your hard disk.

To instantly start recording:



1. Click to start recording.

2. Click to stop recording.

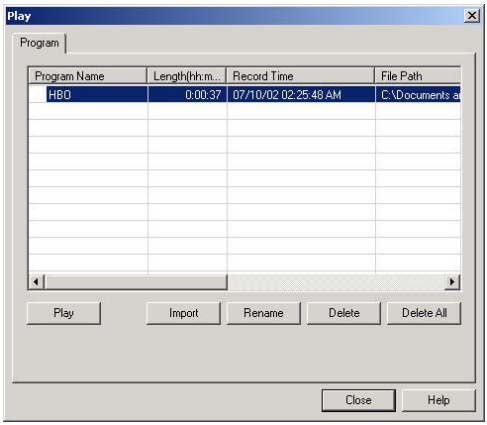
3. When you stop recording, MSI PVS prompts you to name the new recording. Type the name and press OK.

5.4.7 Playback

Playback of recorded programs is performed by using the playback feature. This page describes how to playback recorded programs.

1. Click to open the Play dialog box.

2. Highlight the file name in the program list, double-click or press **Play** to start playback.



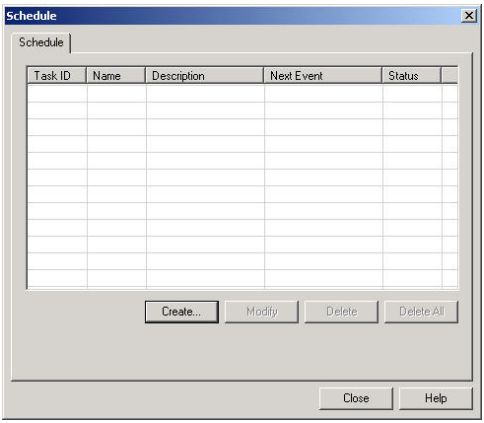
Once a file is playing, the display area of the control panel provides information on the program currently playing.

To rename a recorded program, highlight the file name on the program list and click **Rename**. Type in the new name and select ok.

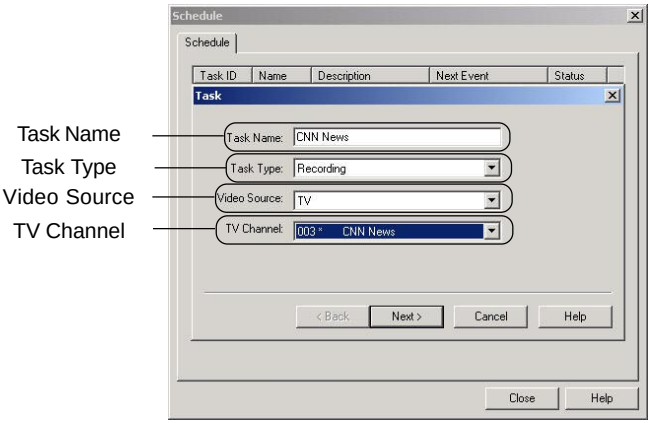
To delete a recorded program, highlight the file name on the program list and click **Delete** or **Delete All** to erase all recorded programs.

5.4.8 Scheduled Channel Recording and Reminding

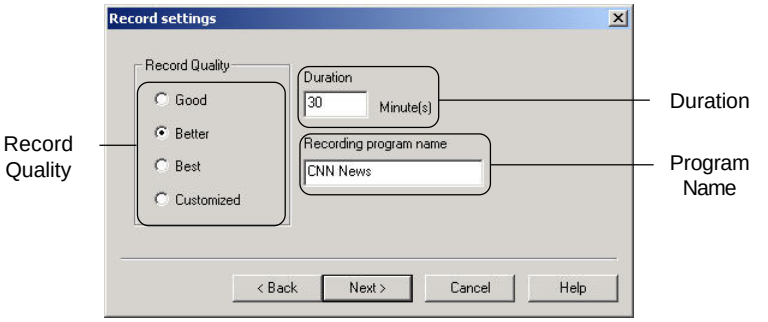
MSI PVS can be scheduled to record a TV program or remind you of an upcoming program. The schedule can be set for a one-time or a reoccurring session. Click to open the Schedule dialog box.



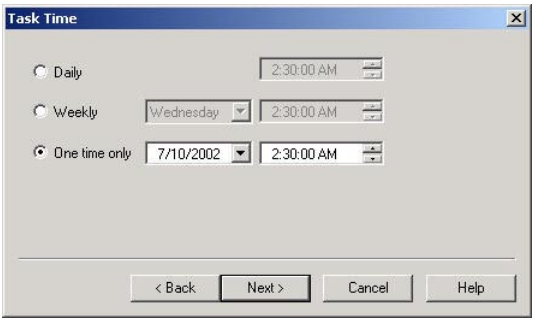
1. Click Create, a schedule wizard will guide you through the set up process.



2. Enter a task name.
3. Select the **Task Type**, i.e. Recording or Reminding.
4. Select the **Video Source**, e.g. TV capture card.
5. Select the **TV Channel**, if applicable.
6. Click Next.



7. If you are scheduling a recording session, the Record Settings page will appear. Select a radio box for recording quality.
8. Set the **Duration** of the program to be recorded.
9. Enter the **Program Name**.
10. Click Next.



11. Set the time for the task to occur.
12. Click Next.

When a new task is scheduled, it is added to the Schedule task list. An icon in front of each item indicates whether it is a Channel Recording task, indicated by the icon or a Channel Reminding task indicated by the icon .

5.4.9 Still Image Capturing

MSI PVS also allows you to capture individual still images during program playback or live TV.

Click the capture icon on the control panel or press the keyboard shortcut "P" at any time, to capture an image of the display window.

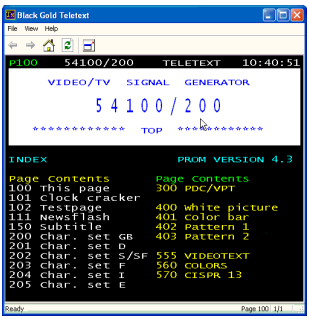
Check the Record property page for screen capture size. Captured bitmaps are stored in the folder that you assigned for storing recorded and captured files. Check the Storage Property page for more information. Captured files are automatically named and numbered cap001.bmp, cap002.bmp, etc.

5.4.10 iAccess

Click to link to *http://www.intervideo.com* for online product information and upgrades.

5.4.11 Teletext

In some areas where PAL TV system is used, the local TV system prividers support teletext service. Follow the instruction on page 5-18 to active teletext service. The teletext page will show, and you can change pages by entering page number on your keyboard.



6

HOW TO USE MSI RADIO

This chapter describes how to use the MSI Radio. The MSI Radio that comes with a modern designed panel is a handy utility for receiving broadcasts. The changeable skins of the MSI Radio can make your taste more unique and personalized. The record function can instantly record your favorite broadcast content; otherwise, the language learning function can repeatly play a specified section of the recorded broadcast content as you like.

6.1 Introduction to the MSI Radio

6.1.1 How to Launch the MSI Radio

The MSI Radio utility will be installed simultaneously when you install the MSI PVS *(also refer to Chapter 4)*. The MSI Radio icon will show on the desktop. Double click the icon or click MSI Radio icon on MSI PVS panel, and then the MSI Radio panel will appear.

MSI Radio icon

6.1.2 What Are the Buttons on the MSI Radio

The MSI Radio comes with 3 kinds of skins; however, we will introduce the default one here. The operations for other skins will be mentioned later. The default MSI Radio consists of three parts: Main Panel, Recorder Panel and Visual Effect Panel.

Main Panel

SETTING

Click this button to activate the setting window *(see 6.2)*

<--- --->

Click this button to simplfy the MSI Radio *(see 6.3.8)*

TV

Click this button to launch the MSI PVS and close MSI Radio *(see Chapter 5)*

SKIN

Click this button to activate skin select window *(see 6.3.7)*

Drag this button to tune the station frequency *(see 6.3.1)*

Click this button to tune backward to an available station *(see 6.3.1)*

Click this button to tune backward with a programmable frequency scale *(see 6.3.1)*

Click this button to tune forward to an available station *(see 6.3.1)*

Click this button to tune forward with a programmable frequency scale *(see 6.3.1)*

Click this button to turn off the MSI Radio

Click this button to minimize the MSI Radio *(see 6.3.8)*

Click this button to mute the MSI Radio; click again to cancel *(see 6.3.3)*

Click this button to link to the MSI website *(http://www.msi.com)*

Click the button to quick access the memorized station *(see 6.3.2)*

Drag the slider to adjust the volume *(see 6.3.3)*

This section shows the current time

This section shows some information about what you are doing on the MSI Radio

This section shows the frequency value of the station

This section shows the station memory status

This section shows the frequency signal level

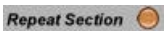
Recorder Panel

Click this button to play the recorded content

Click this button to pause recording or playing

Click this button to stop recording or playing

Click this button to record



Language Learning Machine - Click this button while playing to instant repeat backward with a pre-programmed time length *(see 6.3.6)*

This section shows the playing or recording time

Visual Effect Panel

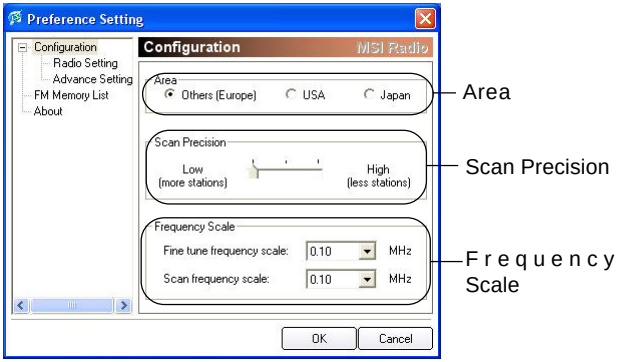
Click this button to activate the visual effect menu *(see 6.3. 4)*

Click this button to close or open the visual effect panel

6.2 How to Program the MSI Radio

You may encounter some problems in receiving stations when first launching the MSI Radio. That is not the bug of the MSI Radio. Because the broadcast frequency range may vary in different countries, you are probably unable to receive the interference-free quality broadcasts. Please click the setting icon to solve the problems.

6.2.1 Configuration



Area

Each area has its proprietary frequency range. If you are unable to receive some stations in your area, there might be the inporper setting in this option. Check the porper radio box to correct the problem. The range for each area is listed below:

Others(Europe) --- 87.5 ~ 108.0 MHz
USA --- 87.9 ~ 107.9 MHz
Japan --- 76.0 ~ 91.0 MHz

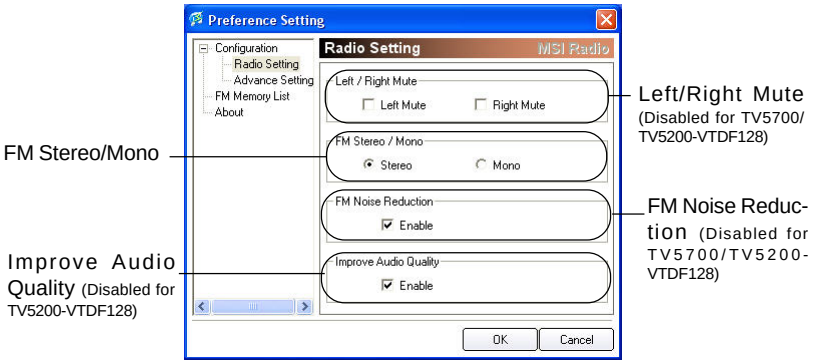
Scan Precision

The scan precision is the threshold for your MSI Radio to determine whether it should receive a station. The higher the scan precision is set, the less stations will be received for many stations with weak signal are skipped automatically.

Frequency Scale

The frequency scale allows you to program the scale of each tune. There are 4 values in each drop-down list box: 0.01, 0.02, 0.05 and 0.10 MHz. The value of ***Fine tune frequency scale*** will function to the < and > buttons while that of ***Scan frequency scale*** to the << and >> buttons.

6.2.2 Radio Setting



Left / Right Mute

You can mute the left or right channel by checking the square box.

FM Stereo / Mono

You can activate the stereo or mono sound effect by checking the radio box.

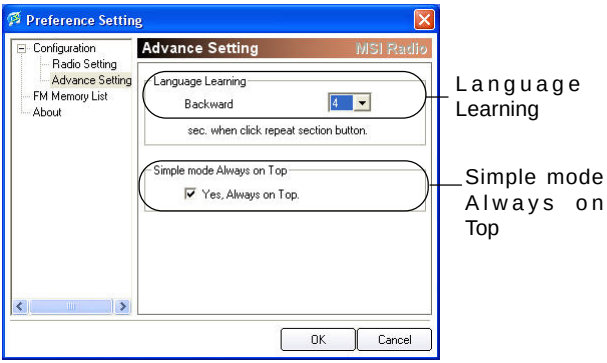
FM Noise Reduction

You can reduce the FM noise by checking the square box.

Imporve Audio Quality

You can improve the audio quality by checking the square box.

6.2.3 Advance Setting



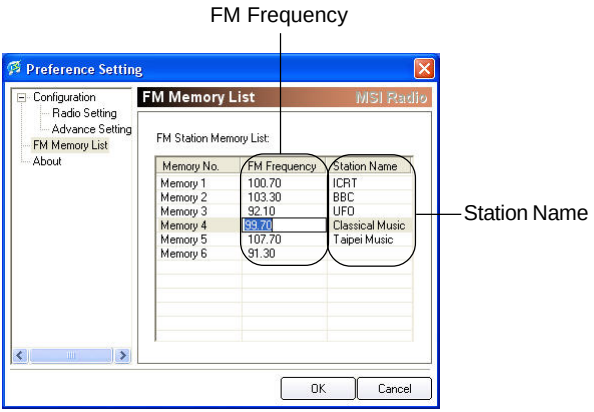
Language Learning

You can set the repeat time length for language learning. There are 4 values in the drop-down list box: 1, 2, 4 and 8 second(s). *(see 6.3.6)*

Simple mode Always on Top

You can set the MSI Radio to be on the top of the desktop when it is in simple mode. *(see 6.3.8)*

6.2.4 FM Memory List



FM Memory List

The MSI Radio provides 6 station memory sets for quick access. *(see 6.3.2)*

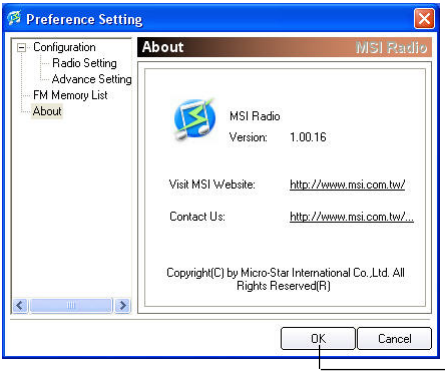
In ***FM Frequency*** box, click the box, enter the frequency value of the station, and press **ENTER** key to complete a station memory setting.

In ***Station Name*** box, click the box, name for the station as you like, and press **ENTER** key to complete station naming.

The station information that you input will shows when the mouse over memory buttons

.

6.2.5 About the MSI Radio



This window shows the MSI Radio version that you are using. Click the web address to contact us if you want to inquire more information about our products.

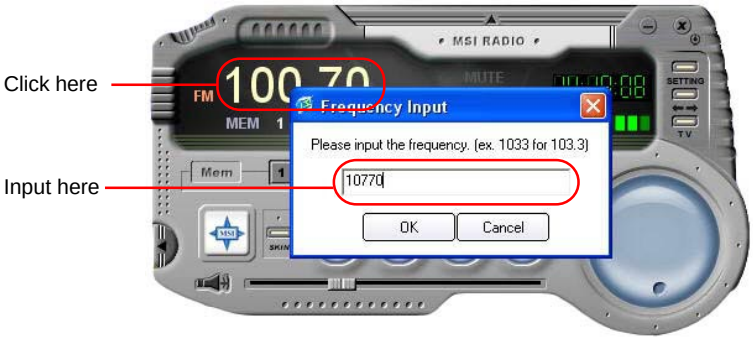
6.3 How to Enjoy the MSI Radio

Congratulations! You have just set the MSI Radio to the best condition. Now let's enjoy it.

6.3.1 How to Tune a Station

There are 3 ways to tune a station.

Way 1: Click the section of frequency value and input a frequency value in the pop-up window. Click **OK,** and the MSI Radio will tune to the station.



Way 2: Use the tune buttons << < > >> to tune a station.

Way 3: Drag the shuttle button to tune a station.

MSI reminds you...

✦ *The frequency value that you input will be analyzed and transferred into an acceptable format according to the frequency range. Any value out of the frequency range will be deemed as invalid input.*

6.3.2 How to Memorize a Station

When you find a station, you can memorize the station as an quick access with the following 2 ways.

Way 1: Left-click the station memory button that you want

and hold for one second. This button will become a quick access for the station. Otherwise, you can right-click the button and click **OK** in the pop-up window to erase the station memory.

Way 2: Activate the FM Memory List window and program your favorite stations directly. *(see 6.2.4)*

6.3.3 How to Adjust the Volume

Please adjust the proper volume for the MSI Radio by dragging the slider.

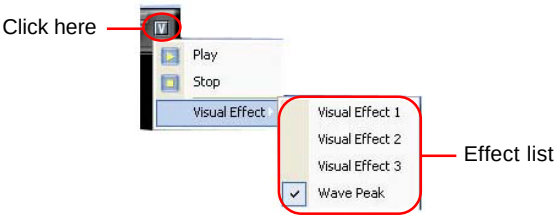
You can click the button to mute. The button will become ,and then the mute signal

will appear. Click the button again to cancel.

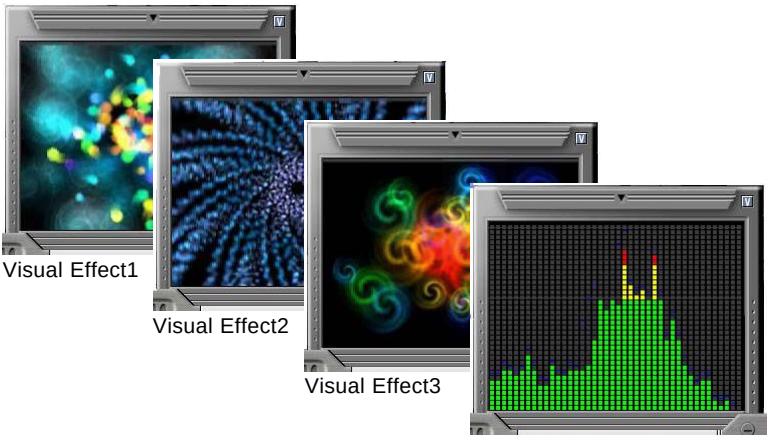
6.3.4 How to Activate the Visual Effect

Just like the Windows® Media Player®, the MSI Radio also has visual effects with fancy shapes and colours. Four effects are built-in for your preference.

Click the button to open visual effect panel. Click button on the right-top of the visual effect panel, and a pop-up window appears.



Click **Play** or **Stop** to control the visual effect. There are 4 visual effects for your preference. Once you close the panel, the visual effect will stop automatically.

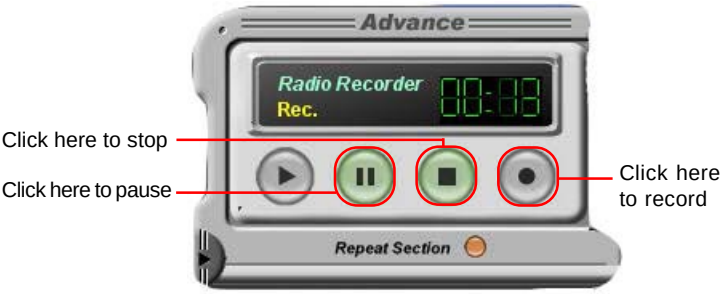


6.3.5 How to Use the Recoder

First, you should click the button to open the recoder panel.

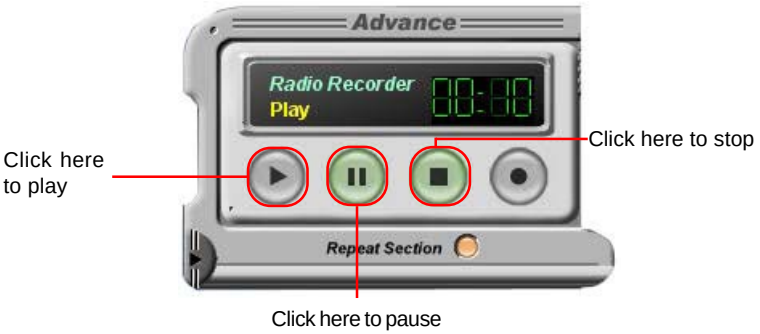
Recording

Click the button to record the current station content and the button to pause or again to continue recording. Click the button anytime to stop. A pop-up window appears asking to save the recorded content.



Playing

Click the button, and then a pop-up window appears asking you to play a recorded content. Click the button to pause or again to continue playing. Click the button anytime to stop.



MSI reminds you...

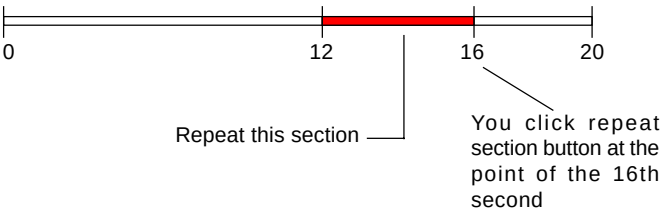
- *The length of the recording content depends on the available space of your hard disk drive. Check your hard disk drive before recording.*
- *The recorded content will be saved as *.wav format.*

6.3.6 How to Use the Language Learning Machine

While playing a recorded content, you can click the Repeat Section button to instant repeat backward with a pre-programmed time length. Please refer to *6.2.3 Advance Setting*. This unique function of MSI Radio would be a great help for foreign language learners. The repeat length can be 1, 2, 4 or 8 second(s). *(see 6.2.3)*

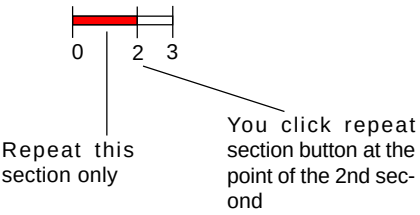
If your setting is...

Total reocrded time length --- 20 seconds
Repeat time length --- 4 seconds



If your setting is...

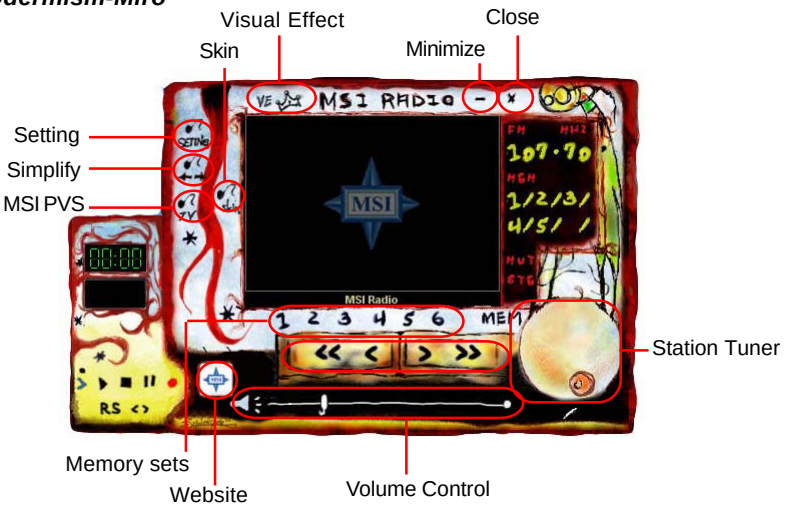
Total reocrded time length --- 3 seconds
Repeat time length --- 4 seconds



6.3.7 How to Make the MSI Radio More Fun

Maybe you are tired of the current style of the MSI Radio. Please click the skin icon to select your favorite one. These buttons on each skin are introduced briefly here.

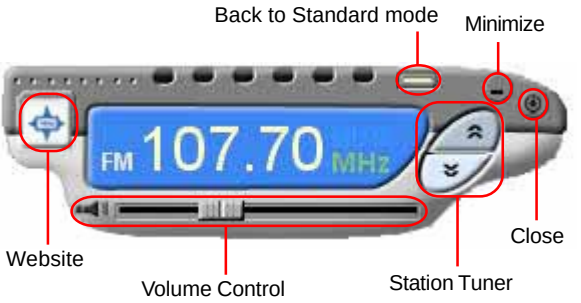
Modermism-Miro



Submarine

6.3.8 How to Minimize and Simplify the MSI Radio

You can click the button to minimize or the simplify icon to simplify the MSI Radio. In simplified mode, some functions will be hidden.



MSI reminds you...

✦ *You can always set the simplfied MSI Radio on the top of the desktop when using any utilities. (see 6.2.3)*